

UNITED STATES ATOMIC ENERGY COMMISSION

WASHINGTON, D.C. 20545

ALL FBI INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 03-13-2009 BY 60324 uc baw/ps

Honorable J. Edgar Hoover, Director Federal Bureau of Investigation U. S. Department of Justice Washington, D. C. 20535

Dear Mr. Hoover:

Reference is made to FBI memorandum dated February 3, 1971, at Philadelphia, Pennsylvania, concerning Dr. Zalman M. Shapiro.

In accordance with arrangements made through FBI Headquar	-		
landi	t	ers,	,
viewed on March 4, 1971, in Reading,	n	er-	•
Pennsylvania. A summary of the interview is enclosed.			
I wish to express my appreciation for the courtesies exte	nd	ed	to
			ng
Pennsylvania, FBI Office. I would appreciate it if you we express my gratitude to Special Agent	i1	1	

Sincerely,

William T. Riley, Directo Division of Security

Enclosure: Interview of

(Cy 1, Series A)

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GROUP 1 Excluded from automatic downgrading and declassification

This material contains information affecting the national defense of the united States within the meaning of the espionage two, Title 18, U.S.C., Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

Mr. () Mr. $M_{\rm TL}$ Mr. W. Bar M=. Tele, Room Miss les Miss Gandy_

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ALL FBI INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 03This document consists of __

E 03-13-2009 BY 60324 uc baw/rs	
INTERVIEW OF	
On March 4, 1971, Kawecki Berylco Industries, Inc. (KBI) was interviewed in his office by Atomic Energy Commission. The interview was for the purpose of clarifying his statement to the FBI	b3 b6 b7C
clarifying his statement to the FBI	
stated that Dr. Shapin	85
President about July 20, 1970. He stated that this was a rew	7
According to several weeks after he arrived (probably Dr. Shapiro asked for a briefing Dr. Shapiro brought	
project started, he checked the clearance status of Dr. Shariro and	¥
had an AEC clearance for	
contacted and asked for a briefing discuss the project since KBI had not yet reason.	
discuss the project since KBI had not yet received an AEC authoristated that he still wanted to talk about the project shapiro	,
stated that he still wanted to talk about the project. advised that he did meet with Dr. Shapiro and discussed the project ments and production schedules.	
AEC project size and classified information believe	
cifically informed the principal KBI management employees that be given access to project information.	
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GROUP 1/ Excluded from automatic downgrading and declassification

This meterial contains information affecting the national defense of the United States within the meaning of the espionage laws. Tire 18, U.S.C., Secs. 793 and 794, the transmission or revelation of which in any manner to an unautorized person is prohibited by law,



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following his employment by KBI on September 1970, the AEC authorized not authorized KBI to grant Dr. Shapiro access to AEC classified
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 $1 - M_I$. B. Adams J. A. Mintz (Sent Direct) $1 - M_{\lambda}$ 1 - Mr. T. W. Leavitt 1 **b**6 b7C 4/22/76 ALL INFORMATION CONTAINED The Attorney General HEREIN ID UNDERSEPTED EXCELL DUENT CHORN Director, FBI CIRCIDISE DR. ZALMAN MORDECAI SHAPIRO Date of Review ATOMIC ENERGY ACT 6/3/82 As you have been previously advised, Senator Howard Baker of the Joint Committee on Atomic Energy and Mr. George Murphy, Executive Director of the Committee, were orally briefed on March 19, 1976, in regard to the FBI investigation into the activities of Shapiro and the Nuclear Material Equipment Corporation (NUMEC), an Atomic Energy Commission subcontractor in Apollo, Pennsylvania By letter dated April 9, 1976, Mr. Murphy requested the FBI furnish the Joint Committee any and all documents relating to Shapiro and other individuals associated with the possible diversion of special nuclear material from the United States to a foreign government. Mr. Murphy indicated these files_should include, but not be limited to, information on alleged intelligence activity concerning Shapiro or any of his associates or acquaintances who could be involved in intelligence or diversion of nuclear material activities on behalf of a foreign government C On April 19, 1976, Mr. Murphy orally requested the above information be submitted immediately. Mr. Murphy was advised that the FBI could furnish him with a memorandum concerning Shapiro but that the release of copies of file documents would have to be approved by the Attorney General. (4° REC-36 Assoc. Dir. Dep. AD Adm. _ Dep. AD Inv. ___ Asst. Dir.: RKM: jdp SEE NOTE PAGE 3 Comp. Syst. _ (10)Ext. Affairs ___ Files & Com. _ Gen. Inv. _ Classified by Inspection, 5019 5019 Saified Declassify ohl Intell. Exempt from SOS, Category 2 Laboratory Plan. & Eval. Date of Declassification Indefinite Spec. Inv. Training __ Legal Coun. EXEMPTED FROM AUTOMATIC GPO: 1975 O - 569-921 MAIL ROOM [____] TELETYPE UNIT [DECLASSIFICATION Director Sec'y ___ AUTHORITY DERIVED FROM: FBI AUTOMATIC DECLASSIFICATION GUIDE EXEMPTION CODE 25X(1,6) DATE 10-15-2008

The Attorney General

Consequently, the attached memorandum and copies of pertinent file documents are being submitted to you for review and determination concerning the release of this memorandum and pertinent documents to George Murphy of the Joint Committee on Atomic Energy.

This Bureau suggests you forward the attached memorandum to Mr. Murphy but we are concerned about releasing copies of investigative file documents to the Joint Committee. This release of our documents has not been done in the past and it is believed that if done in this instance it will establish a precedent. The only exceptions to this have been the documents provided the Senate and House Intelligence Committees.

It is noted that the request for file copies of FBI documents were not received from the Chairman or from members of the Joint Committee but from George Murphy the Executive Director.

For the information of the Attorney General the attached documents

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Enclosures

- 1 The Deputy Attorney General (Enclosure)
- 1 Assistant Attorney General Office of Legislative Affairs (Enclosure)

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The Attorney General

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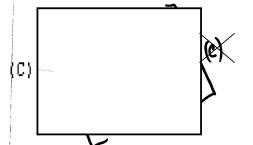
and Mr. Murphy, upon their requests, were orally briefed of the FBI investigations of Shapiro and NUMEC.

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Mr. Murphy therefore has requested copies of FBI file documents be furnished to the Committee. The Legal Counsel Division on 4/19/76, advised Mr. Murphy that a LHM concerning this material would be furnished to him but the release of copies of file documents would have to be approved by the Attorney General.

The attached memorandum and pertinent file documents are therefore being furnished the Attorney General for his review and appropriate action in accordance with instructions of the Legal Counsel Division as set forth in their memorandum to Mr. J. B. Adams, dated 4/19/76.

The original of the LHM is being furnished the Attorney General with copies to the Deputy Attorney General and the Assistant Attorney General-Legislative Affairs.



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1 - Mr. J. B. Adams
1 - Mr. J. A. Mintz
1 - Mr. T. W. Leavitt
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April 22, 1976

DR. ZALMAN MORDECAI SHAPIRO ATOMIC ENERGY ACT

The Federal Bureau of Investigation (FBI) has conducted two investigations of Dr. Shapire. The first investigation was prompted by the Atomic Energy Commission (AEC) advising this Bureau in 1965 that the Muclear Materials Equipment Corporation (NUMEC), an AEC subcontractor in Apollo, Pennsylvania, was negotiating with the Government of Israel to establish a joint company in Israel to be known as Israeli NUMEC Isotopes and Radiation Enterprises (ISCRAD), Limited. The firm was to engage in the irradiation of citrus fruit. A Foreign Agents Registration Act investigation—was initiated to determine if Shapiro was acting as an agent of the Israeli Government in the United States. During the course of this investigation, Shapiro was interviewed. He claimed his close relationship with the Israeli Government was strictly a business matter.

The results of this investigation were furnished to the Justice Department. In September, 1966, the Justice Department advised that the activities of Shapiro and NUMEC did not fall under the purview of the Foreign Agents Registration Act.

In February, 1966, the AEC advised there were indications that NUMEC was lax in the management of nuclear materials. Since April, 1957, AEC had made extensive internal technical checks at NUMEC and had reported the situation to the Joint Committee on Atomic Energy (JCAE). The Joint Committee was told by AEC on February 14, 1966, that in the absence of evidence or suspicion of a violation of the law, AEC had determined that inquiry by the FBI was not then warranted.

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Dr. Zalman Mordecai Shapiro



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According to AEC, NUMEC received 1,012 kilograms of uranium-235 from AEC to process into fuel elements for nuclear reactors for space propulsion. This subcontract was completed on October 31, 1964. In April, 1965, an AEC inventory indicated a loss, fixed by a later AEC check in November, 1965, at 61 kilograms valued at \$764,000. In addition, a survey of the plant's operations since 1957 revealed that NUMEC had experienced a total cumulative loss on all AEC subcontracts of 178 kilograms, all but 61 of which AEC considered properly accounted for by normal processing losses. AEC was unable to say unequivocally that theft or diversion of the 61 kilograms had not taken place, but AEC believed that NUMEC consistently underestimated its processing losses and that the loss of the 61 kilograms charged to the latest subcontract actually reported an accumulation of losses over an 8-year period. AEC pointed out, however, that because the NUMEC records system was not then so set up, no determination could be made as to when the various losses occurred or whether material provided for the latest subcontract was used, knowingly or inadvertently, to offset losses on other contracts.

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AEC advised that there would be no financial loss to the Government as NUMEC had agreed to pay for the 61 kilograms. In addition, NUMEC had developed a better system for controlling nuclear materials and an improvement was also expected due to MUMEC's hiring of a former AEC official. AEC advised, however, that prior to making more penetrating checks into NUMEC's operations, it was felt the FBI should be consulted to determine (4) whether the FBI desired to assume investigation of the matter.

The FBI advised AEC on March 1, 1966, that the FBI had given full consideration to this matter and that under the circumstances presented by AEC, the FBI did not intend to assume any investigative responsibility; however, it was requested that AEC advise the FBI of any further developments coming to its attention concerning this matter which would indicate there had been a violation within FBI jurisdiction.

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Dr. Zalman Mordecai Shapiro (S) The investigation;, which included the use of sensitive sources, determined that Shapiro had a very strong personal sympathy for the Israeli cause. His immediate circle of friends included a number of persons known to be active or ardent sympathizers with the Israeli cause. Shapiro was a close personal friend of David Lowenthal, a former Freedom Fighter for Israel, who frequently visited Israel (S) ~ David Lowenthal is the President of Raychord Corporation in Apollo, Pennsylvania. Lowenthal is also an officer of Apollo Industries in Pittsburgh, a company which was instrumental in establishing NUMEC through investment of a substantial amount of money in NUMEC stock. The investigation also determined that Shapiro made a number of visits to Israel where he was treated with consideration that exceeded what his position would normally call for. Several sources advised that Shapiro felt so strongly for the Israeli cause that he seriously considered emigrating to that country Shapiro was active in fund raising and bond drives and was a heavy contributor to activities on behalf of Israel in the United States. (3)(w)

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It was also established that Shapiro was acquainted with Avrahan Hermoni, Scientific Attache of the Israeli Embassy in Washington, D. C. On November 3, 1968, apparently at the request of Hermoni, Shapiro arranged a meeting at his home which was attended by 11 United States scientific and technical people, some of whom in the past have been associated with the AEC program. During this meeting Hermoni apparently requested that each of the individuals undertake certain information gathering assignments on behalf of Israel. Further investigation was unable to determine whether any of the information requested or subsequently passed by any of those individuals involved classified information. Hermoni was assigned to the Israeli Ministry of Defense and specifically assigned weapon production responsibility.

In September, 1968, Colonel Avraham Eylonie, a senior (U) official of Israel's Military Intelligence Service, was in the United States and had several meetings with Shapiro in Apollo, Pennsylvania, and Washington, D. C.

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Shapiro resigned his position as President of NUMEC in June, 1970. In January, 1972, Shapiro was employed as the Assistant in Charge of the Breeder Reactor Division, AEC, Westinghouse Electric Corporation, Monroeville, Pennsylvania. He held no security clearance and did not have access to classified materials. By letter dated April 15, 1969, the Department of Justice advised that based on the results of the FBI investigation conducted to date, the facts of the matter were not such as to warrant action against Shapiro.

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Employment

Mr. Shapiro held numerous part-time jobs between the years of 1937 and 1941. Beginning in June, 1942, and ending in June, 1946, Mr. Shapiro was employed as a research associate at Johns Hopkins University. From June, 1946, through February, 1948, he was a Junior Instructor at the University. From August, 1948, to February, 1949, when he applied for his clearance, he was employed as an engineer at Westinghouse Electrical Corporation, Pittsburgh, Pennsylvania.

Marital Status

Mr. Shap	iro is	married to	the	former	
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Interviews

Dr. Walter Patrick, Chemistry Department, Johns Hopkins University, advised in 1949 that he had known Mr. Shapiro for about six years and that the applicant had studied and conducted research work directly under him for about two years prior to 1948. Dr. Patrick considered Mr. Shapiro to be an excellent chemist and well-mannered, of excellent moral stability and throughly reliable. He stated that the applicant was a loyal American citizen and is anti-communist. He stated Mr. Shapiro's political views agreed with many of the opinions expressed by the progressive citizens of America as opposed to the views of the more conservative political parties. Dr. Patrick advised that Mr. Shapiro could be trusted with confidential data. He stated that Mr. Shapiro had performed valuable work on a confidential research project during the war and had done an excellent job.

Dr. Richard Evans, Catalyst Research Corporation, Falls Road, Maryland, advised in 1949 that he had worked with Mr. Shapiro on a confidential research project for the government at Johns Hopkins University from July, 1942, until

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July, 1946. Dr. Evans stated he had trusted Mr. Shapiro with the most confidential data. Dr. Evans believed Mr. Shapiro to be entirely loyal and trustworthy and stated Mr. Shapiro associated with persons of reputable character at the University. Dr. Evans recommended Mr. Shapiro most highly for a position of trust and responsibility.

Eighteen additional persons, consisting of neighbors, references, professional associates and social acquaintances were interviewed. They commented favorably concerning his character, loyalty, reputation, associates and morals. They recommended him for a position of trust and confidence with the U.S. Government.

Those persons acquainted with his close relatives described them as reputable and loyal individuals.

Close Relatives

	Mr. S	hapiro's	parents	s, Abraham	and Mi	anie, we	re
born in		and becar					
In 1949,	Abraha	m Shapire	was de	ceased.	In add:	ition to	his
		previous					
Zipparah	ı Shapir	·o,	-	-			•

Credit and Arrest Checks

Information was received from appropriate credit reporting agencies indicating their files contained either no record or no additional pertinent information concerning Mr. Shapiro.

Information was received from appropriate law enforcement agencies indicating their files contained no information concerning Mr. Shapiro or his close relatives.

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Miscellaneous

In filling out the personal security questionnaire in 1949, Mr. Shapiro indicated that he was a member of the Independent Citizens Committee of the Arts, Sciences and Professionals from 1946 to 1947. It is noted that the "Guidelines to Subversive Organizations and Publications" prepared and released by the Congressional Committee on Un-American Activities in May, 1951, cited the Independent Citizens Committee of the Arts, Sciences and Professionals as a communist front organization.

On August 10, 1953, an Atomic Energy Act employee re-investigation of Shapiro was instituted at the request of the Atomic Energy Commission. This investigation was to bring the original applicant investigation up to date. The results of this investigation are as follows:

Employment

Mr. Shapiro began employment at the Atomic Power Division of the Westinghouse Electrical Corporation at West Mifflin, Pennsylvania, on March 1, 1949, and as of October, 1953, he was still employed there. He had previously been employed at the Westinghouse Research Laboratories, Pittsburgh, Pennsylvania.

Interviews

Nine persons, consisting of neighbors, professional associates, acquaintances and references were interviewed. These individuals recommended Mr. Shapiro highly for any position of trust. In general, they advised that Mr. Shapiro and his wife were of excellent character and reputation and they knew of no questionable associates or associations and believed Mr. Shapiro to be a loyal American. One individual commented that Mr. Shapiro was not the type to have anything to do with communism or subversive organizations.

Credit and Arrest Checks

Information was received from appropriate credit reporting and law enforcement agencies that indicated there was no derogatory information contained in their files in regard to Mr. Shapiro.

NOTE:

Original and one copy were furnished to the Attorney General, one copy to the Deputy Attorney General and one copy to the Assistant Attorney General, Office of Legislative Affairs.

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1 - Mr. J. B. Adams 1 - Mr. J. A. Mintz 1 - Mr. F. C. Fehl 1 - Mr. T. W. Leavitt 1 -1 -

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April 27. 1976

DR. ZALMAN MORDECAP SHAPIRO ATOMIC ENERGY ACT APPLICANT

An Atomic Energy Act Applicant investigation was instituted on February 24, 1949, in accordance with the provisions of the Atomic Energy Act of 1946. This investigation concerned the character, associates and loyalty of Er. Shapiro.

Mr. Shapiro had applied to the Atomic Emergy Commission for a security clearance on the basis of his contemplated employment as a Research Engineer at Westinghouse Electrical Corporation, Pittsburgh, Pennsylvania.

The investigation of Shapiro revealed the following:

Birth and Citizenship

Mr. Shapiro was born on May 12, 1920, in Canton, Ohio, and is a United States citizen.

Education

Mr. Shapiro attended Johns Hopkins University, Baltimore, Maryland, beginning on September 22, 1938 as a candidate for an AB Degree. He received his degree on June 2, 1942. He re-entered the University as a graduate student in the chemistry department on October 18, 1943. received his MA Degree in chemistry November 5, 1945 continued at the University as a graduate student and received his Ph.D in chemistry on June 8, 1948.

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SEE NOTE PAGE 5

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- Mr. J. B. Adams 1 - Mr. J. A. Mintz 1 - Mr. F. C. Fehl April 27, 1976 1 - Mr. T. W. Leavitt 1 1 REC-62 Murphy had requested the FBI investigative reports Laboratory / Legal Coun. Plan. & Eval. ... Rec. Mgmt. Spec. Inv. Training t basils Dept of system

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The Attorney General

Director. FBI

DR. ZALMAN MORDECAI SHAPIRO ATOMIC ENERGY ACT APPLICANT

Enclosed for your review prior to transmittal Mr. George Murphy, Executive Director of the Joint Committee on Atomic Energy, is a summary memorandum of the Federal Bureau of Investigation Atomic Energy Act Applicant investigation conducted of Dr. Shapire in 1949 and 1953.

Please advise this Bureau if you furnish this memorandum to Mr. Murphy.

Enclosure

1 - The Deputy Attorney General (Enclosure)

I - Assistant Attersey Coneral Office of Legislative Affairs (Enclosed)TAINED

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NOTE:

At a meeting on 4/23/76, between the Director and the Attorney General, it was decided that the enclosed LHM be submitted to George Murphy of the Joint Committee.

Assoc. Dir. regarding the FBI applicant investigation of Shapiro conducted in 1949 and 1953. It was decided at the above-mentioned meeting that in lieu of FBI investigative reports, the summary memorandum would be submitted.

APPROVED: Assoc. Dir. Dep. AD Adm.... Dep. AD In Asst. Dir.: Admin...

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Field Office File #:

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Bureau File #

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Title:

ZALMAN MORDECAI SHAPIRO

Character:

ATOMIC ENERGY ACT; OBSTRUCTION OF JUSTICE

Synopsie

On 4/29/76, this investigation was instituted upon request of the United States Attorney General indicating that an investigation be conducted to determine whether or not a diversion of nuclear material had occurred at the Nuclear Materials and Equipment Corporation (NUMEC), Apollo, Pennsylvania, partially owned and operated by the subject, and if this diversion

had been to the benefit of the Government of Israel. Investion to date, including interviews of individuals reportedly in possession of information pertaining to this matter and review of government records has reflected no evidenciary material or facts to indicate this diversion had taken place. Interviews to date have reflected supposition and theory based on analysis of circumstantial information.

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DETAILS: AT WASHINGTON.

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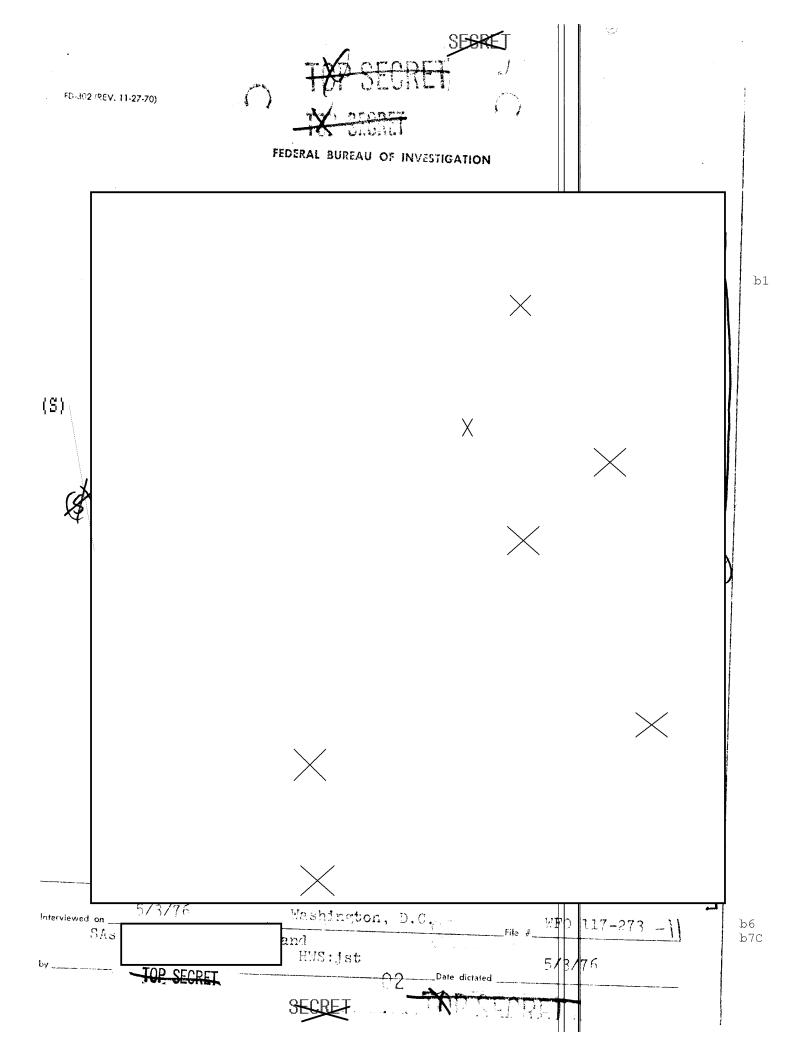
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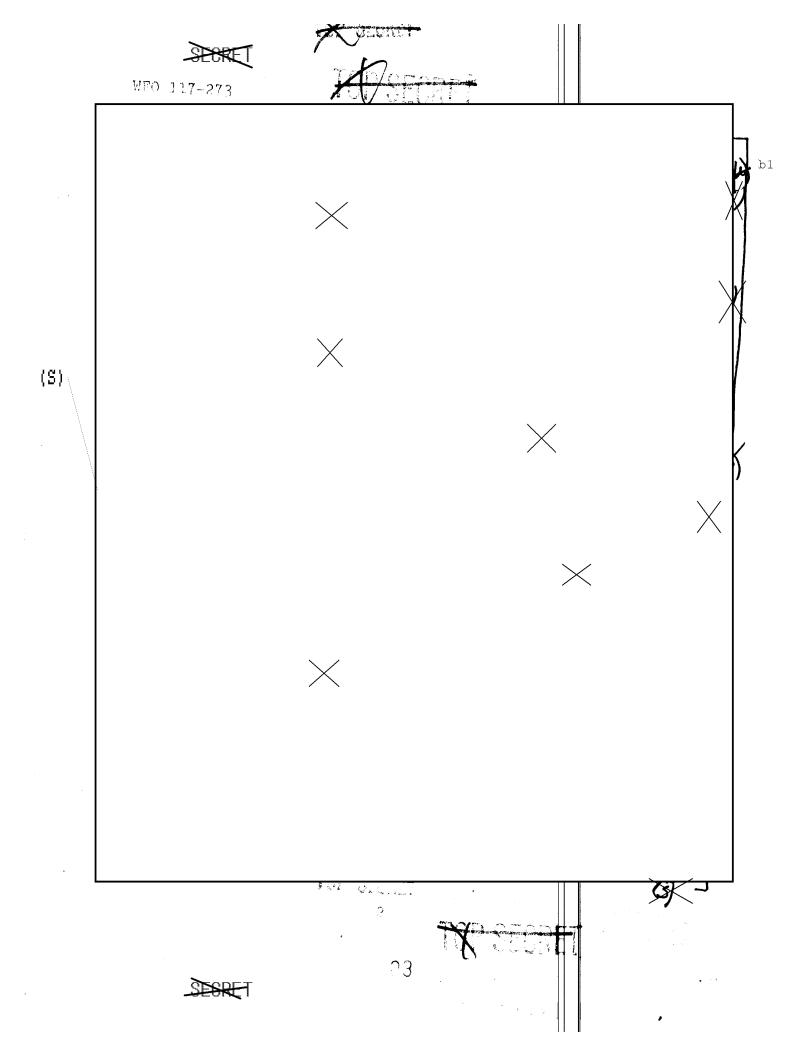
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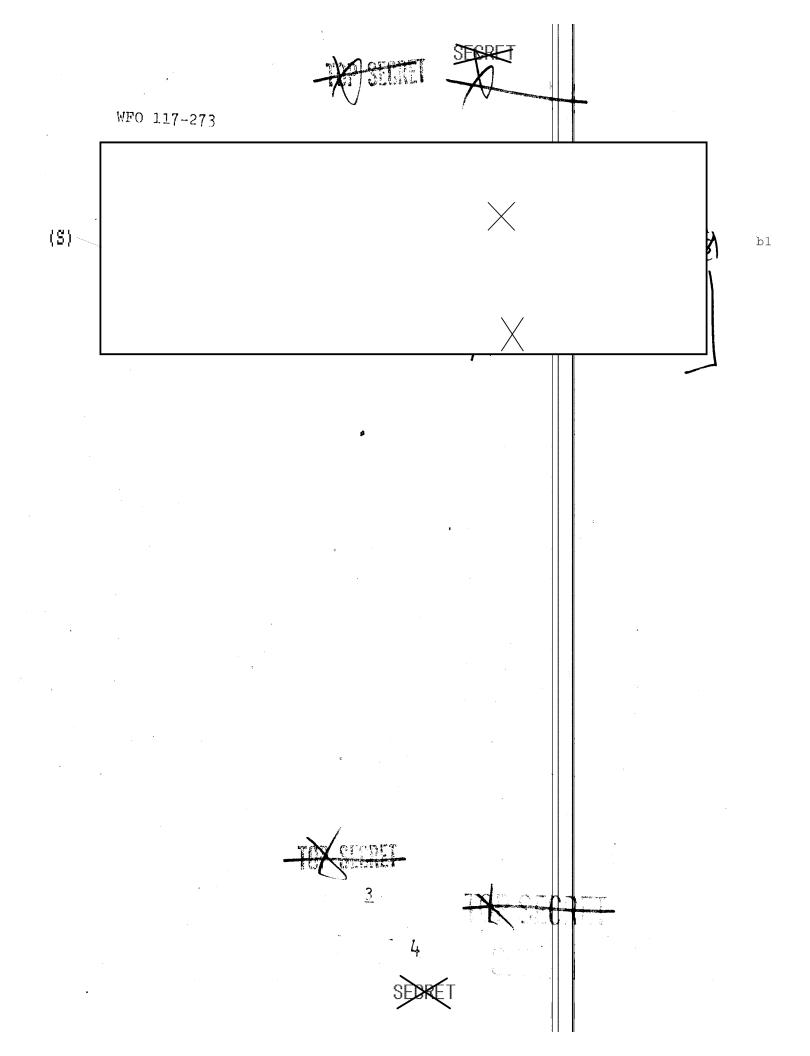
The Attorney General of the United States requested that an investigation be conducted pertaining to the question of whether or not a diversion of nuclear material had taken place at the Nuclear Materials and Equipment Corporation (NUMEC), Apollo, Pennsylvania, partially operated and owned by the subject, ZALMAN MORDECAT SHAPIRO, and if this diversion had been for the benefit of the Government of Israel [1] Investigation was initiated on April 29, 1976

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B. S	SUMMARY OF CUMULATIVE NORMAL OPERATIONAL LOSSES AND MATERIAL UNACCOUNTED FOR 7/1/66 THROUGH 6/30/68	. 13
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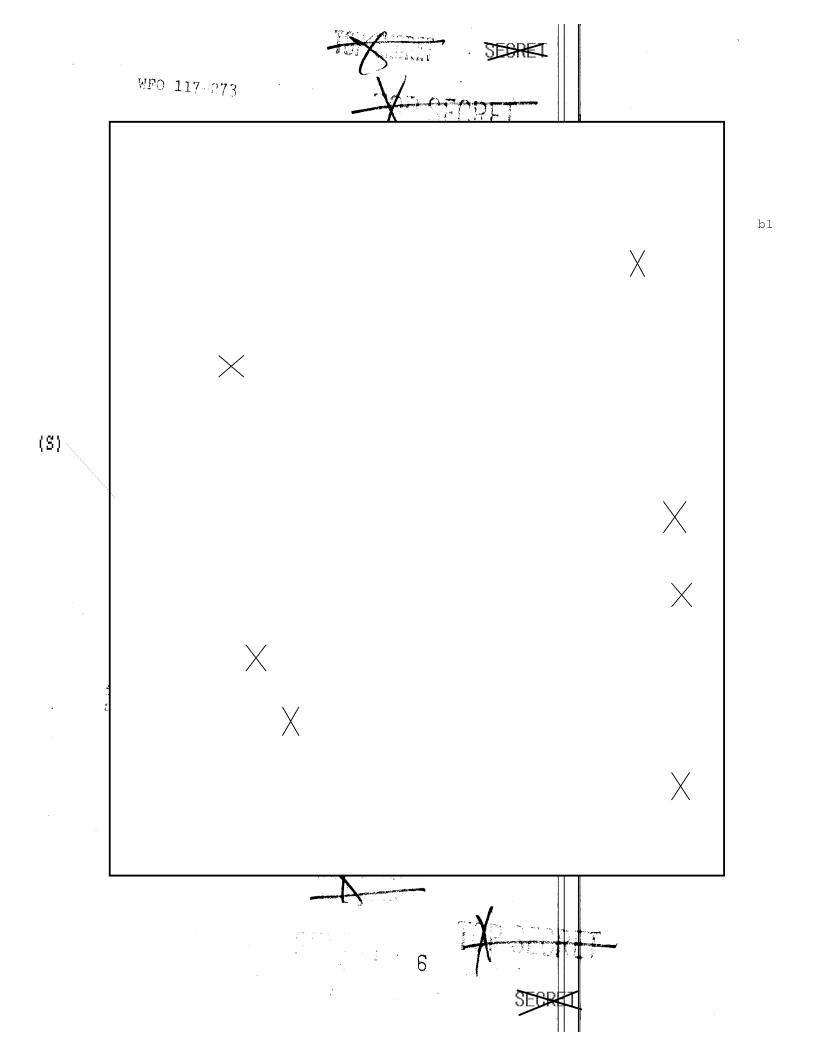


(S) Washington, D.C. Interviewed on _ SAs and AES:jst 5/3 Date dictated This document contains recommendations on conclusions of the FBI. It is the property of the FBI and is loaned to your agency;

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FEDERAL BUREAU OF INVESTIGATION



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On May 3, 1976, ROBERT E. THARP, Deputy Director of Safeguards and Security, Energy Research and Development

Agency (ERDA), furnished the following information to who had identified themselves to THARP as Special Agents of the Federal Bureau of Investigation (FBI):

The Nuclear Materials and Equipment Corporation (NUMEC) was founded by ZALMAN MORDECAI SHAPIRO at a time when the Atomic Energy Commission (AEC) was attempting to interest industry in the manufacture of nuclear fuel rods. As part of the inducement to manufacturers, the AEC excercised very little control over the handling of material and over There was no resident on-site inspection physical security. or audit and what inspections and audits were conducted were conducted infrequently. In addition to NUMEC there were a number of other manufacturers under contract to the AEC for the production of nuclear fuel rods, but most of the other NUMEC was possibly firms held only one contract at a time. the only firm at that time to have a series of overlapping contracts spanning several years. In each contract of the NUMEC type let by the AEC there was a provision that the manufacturer must return 100% of the material provided by the government. Loss of material is inherent in the production of the U-235 used in the fabrication of the nuclear fuel rod and at the time a bid is made on the contract the manufacturer is aware of financial penalties imposed for any loss of Presumably, loss of material and the consequent material. financial penalty exacted was taken into account in the When the average contracter completed his contract, the material not lost in production was returned to the AEC and the contractor paid for any loss of material. It was the opinion of AEC that in the case of NUMEC, because that corporation held a series of overlapping contracts, it would have been possible for the firm, when completing one contract, to return to the AEC the full amount of material called for by the contract. This could have been accomplished by borrowing material from the following and overlapping contract. It is felt by AEC that this was apparently done over a series of contracts and over a span of years. In any event, when

Interviewed on	5/3&4/76	Germantown,	Maryland	WFO 117-273
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WFO 117-273



NUMEC completed its final contract it had no follow-on contract material to borrow from and NUMEC had to admit to a serious shortage of material which it paid for under the terms of the last contract. THARP was unaware as to whether NUMEC may have returned 100% of the material on all but the last contract; whether it may have paid for only minimal losses or just how the loss discovered at the conclusion of the final contract was accrued.

SHAPIRO was interviewed by representatives of the AEC concerning the lost material but he made no admission to indicate that he was juggling material from one contract to another. He merely attributed the loss to the fact that the loss contained in the waste material had been underestimated. He had to concede that the loss had to have occurred over a number of contracts and could not have been attributed solely to his final contract.

THARP advised that SHAPIRO actually developed the process used by industry for the manufacture of nuclear fuel and is of the opinion that when AEC conducted an examination of NUMEC's performance it was found that the shortage of material experienced by NUMEC over the years and over the span of its contracts was more or less in line with that experienced by other manufacturers under contract to AEC at that time.

THARP considers that no diversion of material took place because SHAPIRO could not have accomplished it alone. THARP feels that a successful diversion of material would have required a conspiracy of considerable magnitude extending through a number of departments of NUMEC.

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THARP displayed to the interviewing Agents five boxes of material which he stated consists primarily of the

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complete AEC investigation of NUMEC with supporting documents. He noted that much of the material in the five boxes was of a highly technical nature and said that Agents may require the assistance of a man trained in the field of nuclear fuel for its full understanding

THARP noted that a personnel and security file maintained on SHAPIRO is now in possession of the Congressional Joint Committee on Atomic Energy. It will be made available for review upon its return

THARP continued that he has also recently furnished to the White House two black loose leaf books containing an overall unclassified summary and fact sheet involving the situation regarding NUMEC. Also contained in this material are thirty-three letters through which the AEC reported on the matter to the Congressional Joint Committee on Atomic Energy. Also furnished to the White House by THARP were three red covered books containing a summary survey report of AEC interviews with former and current employees of NUMEC; a report on all overseas shipments of U-235 and a copy of the SHAPIRO interview conducted in August of 1969 by a representative of the Division of Security and the General Counsel Office of AEC

THARP also noted that there were two General Accounting Office reports made on the "NUMEC matter". In the presence of interviewing Agents, THARP initiated inquiries with the followoing offices of ERDA for the purpose of determining what, if any, files are available through those offices concerning the NUMEC matter:

Office of Internal Review and Audit, Office of the General Counsel, Office of the Controller and the Contracts Division.

On May 4, 1976, recontact was made with Mr. THARP at which time the following was determined. He has not had a full response from inquiries initiated by him the previous day directed at locating additional files relating to NUMEC, possibly held by ERDA. However, certain additional files have been located and he specifically noted that all contracts executed between the AEC and NUMEC are in the possession of ERDA. They have been located and will be made available for review.

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Date of transcription 5/13/76

On May 7, 1976, THOMAS JAMES HAYCOCK, JR., Assistant Director for Information Support, Division of Safeguards and Security, Energy Research and Development Agency (ERDA), advised as follows:

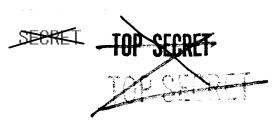
He is familiar with the investigation of Nuclear Material and Equipment Corporation (NUMEC) conducted by the Atomic Energy Commission (AEC) in the 1960s, although he was not a member of the AEC staff conducting the investigation.

	isit the Israeli reactor at Dimona, Israel.	•
	At that time he was given a tour of the facility, notluding a tour of the building under construction next to he reactor itself.	7
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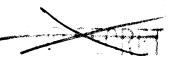
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As regards NUMEC, it is his feeling that NUMEC's losses of U-235 compared favorably with U-235 losses from other facilities involved in the same type of work at the same time.

In support of this contention he provided the two documents from ERDA files showing losses of U-235 suffered by NUMEC and other privately owned companies from 1957-1966 and 1966-1968 which are attached.

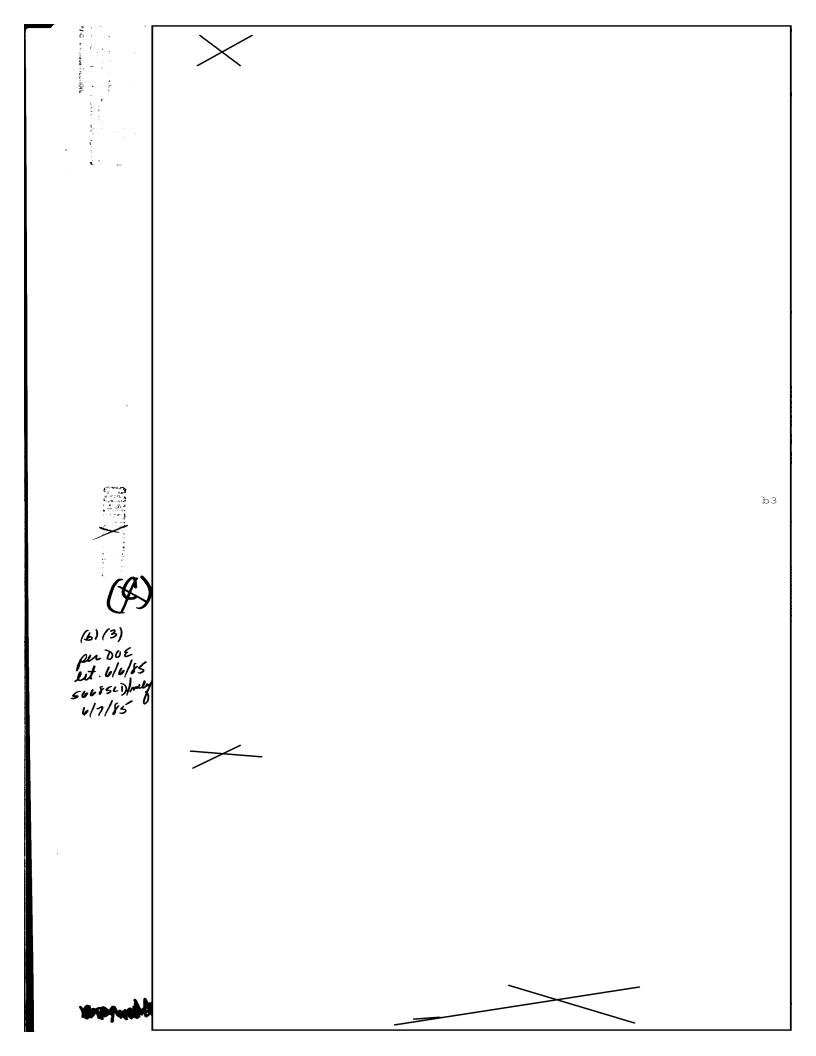
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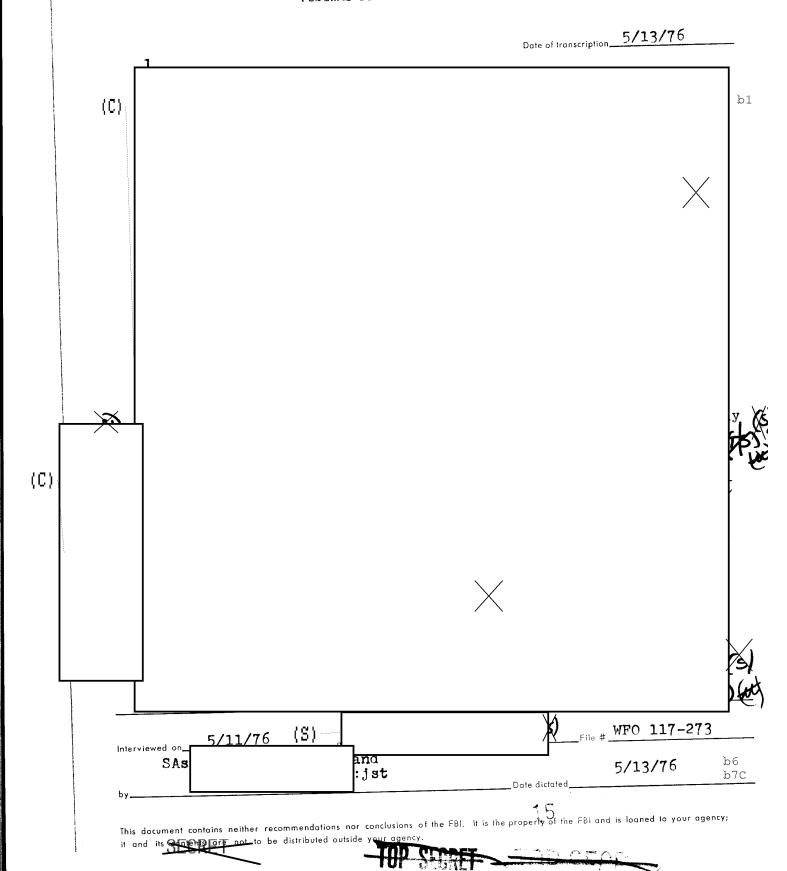
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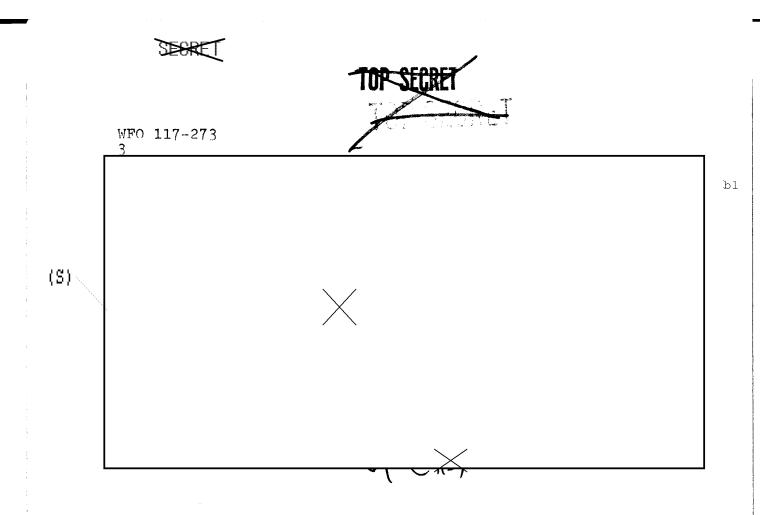
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FEDERAL BUREAU OF INVESTIGATION



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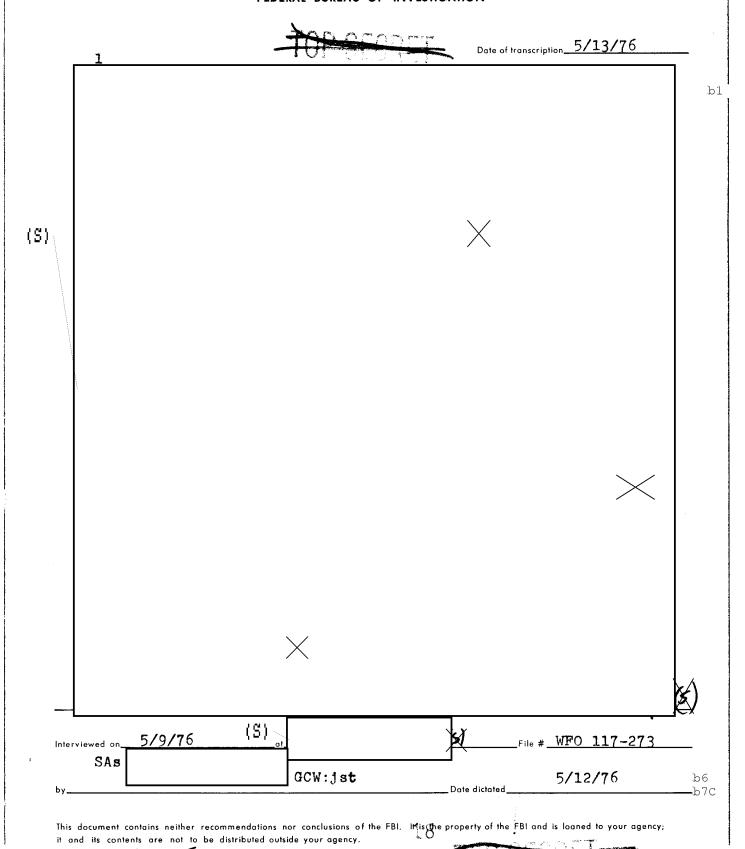


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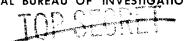
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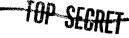
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was emplo the Board interview interview	mpany, 4 Irving Place, New Y yed as an Executive Assistan to Consolidated Edison. At SA advised ed in conjunction with a dir	t to the Chairman of the that he was being
	ney General	
	s cautioned that this was ar tion, and that it should be ialityfurnished the	
to August commenced Joint Com a Staff D	advised he was employed and Bureau of Investigation, 1956. Upon leaving the Fe employment with the United mittee on Atomic Energy (JCA irector for JCAE, and he remober, 1968.	SI, he immediately States Senate in the AE). In 1962 he became
quantity NUMEC (Nu believed of busine a statuto security upon rece several o at NUMEC, emphasize in any ty in which of JCAE,	of the JCAE he was aware of of U-235 from the Apollo, Peclear Materials and Equipmenthis matter came to his attest with the Atomic Energy Cory obligation to keep the JCAE and accountability problems. ipt of this notification, he f his people on the JCAE to which was then headed by Drd that at that time the JCAE pe of accountability problem they were following very closentified the as one of the men he sent to ted loss. In addition, he is participated in this invest	ennsylvania, plant of at Corporation). He ention in the normal course emission (AEC) who had CAE fully informed on recalled that a promptly dispatched check out the situation at ZALMAN SHAPIRO. He was extremely interested and this was an area except with the AEC. Present Staff Director NUMEC at the time of celieved and
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WFO 117-273 staff, and was working as a consultant to Representative FRANK HORTON from New York. Further, he furnished home address as recalled that doggedly pursued the investigation at NUMEC because he had strong feelings there could be a diversion involved. However, at no time did | furnish him anything to hang his hat on. He remarked that if there would have been the slightest evidence of a diversion he would have pushed for a vigorous investigation. Also, he reported that at the time of the JCAE probe, the AEC Safeguards Group was inspecting SHAPIRO's operation regarding licensing arrangements because NUMEC was then dealing in government materials. He was unable to recall the specific nature of these contracts but was aware they were United States Navy contracts calling for the fabrication of nuclear fuel elements. He added that a residue loss is inherent in an operation of this nature, and there is always a dispute on the Normal Operating Loss (NOL) figures attributed to such a process. remembered there was an inability to account for this loss at NUMEC, but no hard evidence surfaced which pointed to any diversion. In this regard, he stated he had no first-hand knowledge of the situation at NUMEC; however, he was very interested in it at the time. He personally suspected that the loss at NUMEC involved a "kiting" operation rather than an actual theft, but he did not have facts to support this. With respect to the "kiting", he pointed out that NUMEC was involved in a number of overlapping contracts; consequently, any shortages could be made up by receiving credit for material he did not use in connection with another The only way this loss could finally be pinned down would be to shut down the plant completely and conduct a thorough cleanup. Additionally, advised he was casually aquainted with Dr. ZALMAN SHAPIRO, and his last personal meeting with him occurred approximately one week ago. meeting was in connection with an organization known as Americans for Energy Independence (AEI) for which SHAPIRO is a primary fund raiser. He stated SHAPIRO's current employer,

the Westinghouse Electric Corporation, assigned SHAPIRO to

this position.

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KENNETH R. CHAPMAN, Director, Office of Nuclear Material Safety and Safeguards, Nuclear Regulatory Commission (NRC), Suite 10718, 7735 Old Georgetown Road, Bethesda, Maryland, furnished the following information:

He retired as a Major General from the United States Air Force and joined NRC about one year ago. He stated that he possessed no independent information concerning ZALMAN MORDECAI SHAPIRO or the Nuclear Materials and Equipment Corporation (NUMEC) of Apollo, Pennsylvania.

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NUMEC. Present at this briefing had been the five NRC Commissioners, as well as BENJAMIN HUBER, Director, Office of Policy Evaluation, NRC, and CARL H. BUILDER, Director, Division of Safeguards, NRC. Information was furnished at the briefing concerning an alleged "tie-in" between NUMEC and foreign nationals and the possibility of a diversion having occurred in connection with reported losses of U-235 at the NUMEC plant.

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Date of transcription 5/14/76

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HAROLD D. THORNBURG, Acting Deputy, Director, Office of Inspection and Enforcement, Nuclear Regulatory Commission (NRC), Room 321-C, 4350 East West Highway, Bethesda, Maryland, furnished the following information:

From 1960 to 1963, he served as a Reactor Inspector at the Atomic Energy Commission (AEC) Headquarters, Germantown, Maryland.

From 1963 to 1971, he served as a Senior Reactor Inspector for AEC Region 3, Glen Ellyn, Illinois.

From 1971 to the present, he served at AEC Headquarters and NRC Headquarters.

He stated he had never been briefed and possessed no personal or independent information concerning ZALMAN MORDECAI SHAPIRO and the Nuclear Materials and Equipment Corporation (NUMEC) of Apollo, Pennsylvania.

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Date of transcription 5/14/76

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RALPH G. PAGE, Deputy Director, Division of Safeguards, Nuclear Regulatory Commission (NRC), 7735 Old Georgetown Road, Bethesda, Maryland, furnished the following information:

He commenced employment for the Atomic Energy Commission (AEC) in 1955 at Oak Ridge, Tennessee. During the period from 1962 to 1967, he had been Chief of the Enforcement Branch of the Division of State and Licensee Relations, which was a part of the Regulatory Organization of AEC, at AEC Headquarters, Germantown, Maryland. During this period, he had read the results of AEC reports reporting the loss of about 100 kilograms of U-235 by the Nuclear Materials and Equipment Corporation (NUMEC), Apollo, Pennsylvania, in 1965, as well as reports of AEC investigations concerning this loss and other losses by NUMEC. Prior to 1965, AEC had no safeguards to protect against such losses, except for AEC Manual Chapter requirements in contracts. He stated that AEC investigations had developed no evidence that NUMEC losses involved an actual theft or diversion of U-235. Further, subsequent continuing losses by NUMEC and succeeding firms using the NUMEC plant, as well as losses suffered by the Nuclear Fuel Services plant in Erwin, Tennessee, have indicated that the losses were possibly due to the uniqueness of these two plants. Neither plant was originally designed for the nuclear operations being conducted there and both are conducting similar operations using gaseous diffusion techniques in recovering U-235 from scrap which also involve similar problems. (1) up pn DOE letter 6/6/85 5668 560/mby 6/7/85

PAGE stated he possessed no personal or independent information concerning ZALMAN MORDECAI SHAPIRO or NUMEC which would offer evidence to contradict earlier AEC investigative results.

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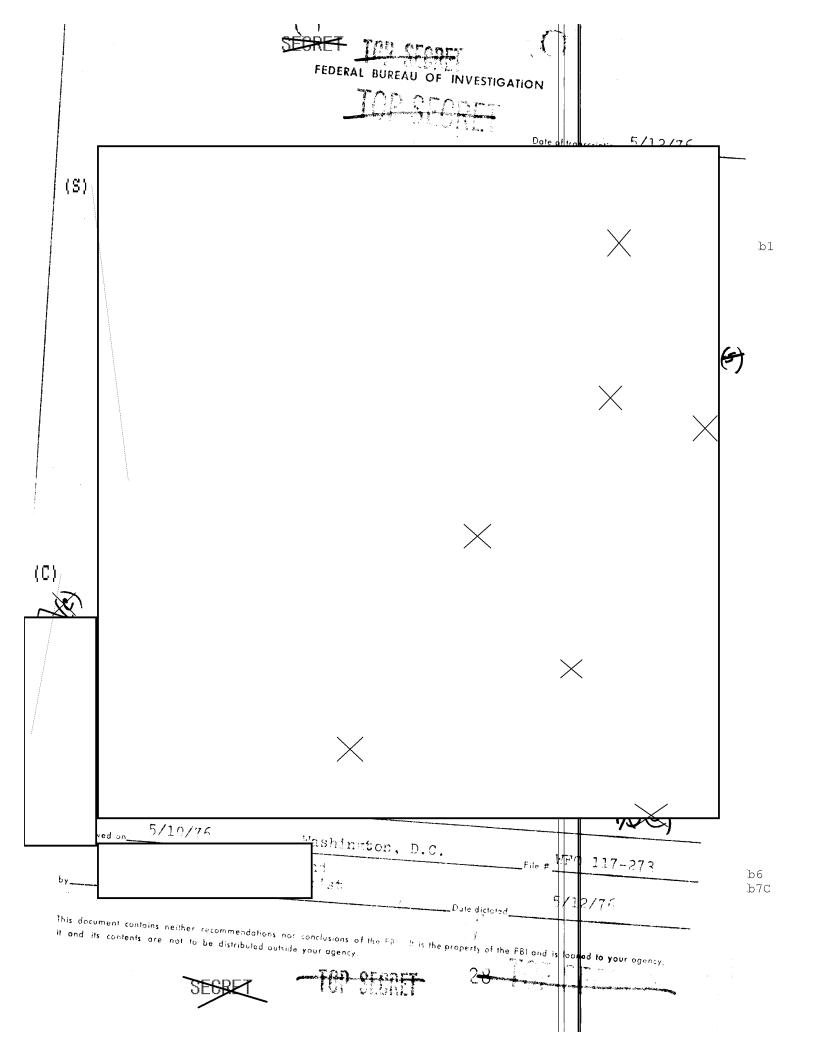
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Committee on office in the	Atomic Energy (JCAE), wa Capitol by Special Ager	ts (SAs) identified themselves
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		ollowing individuals be contacted for further the matter in question:
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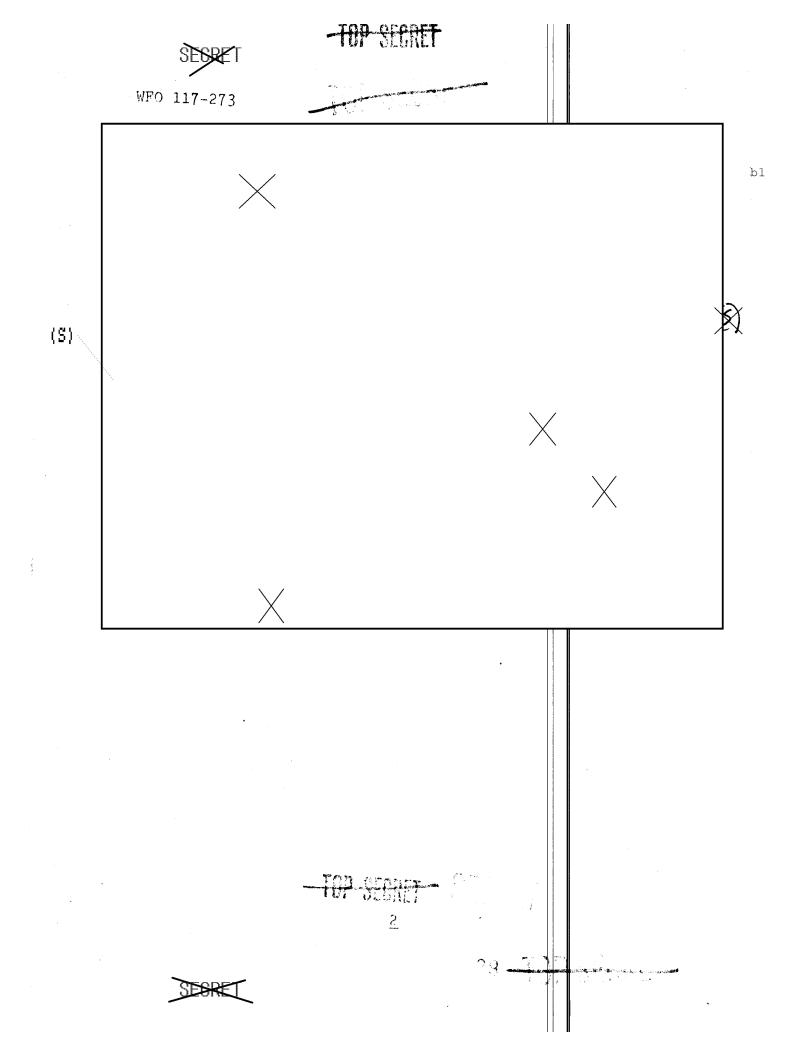
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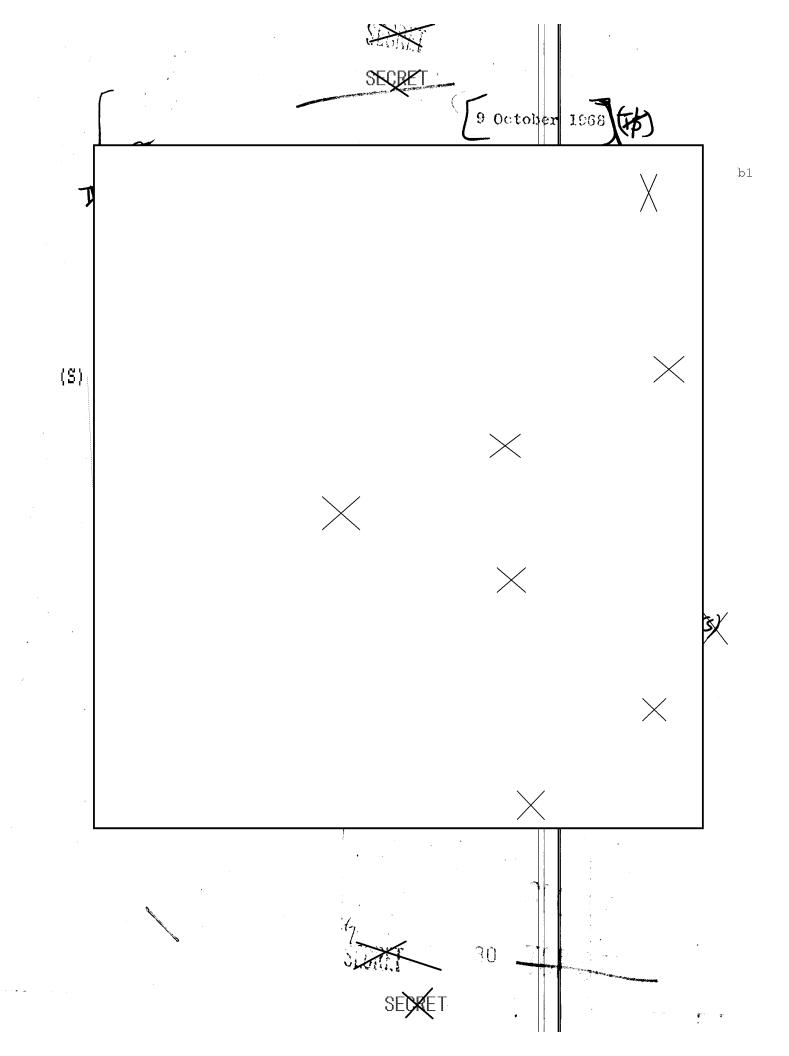
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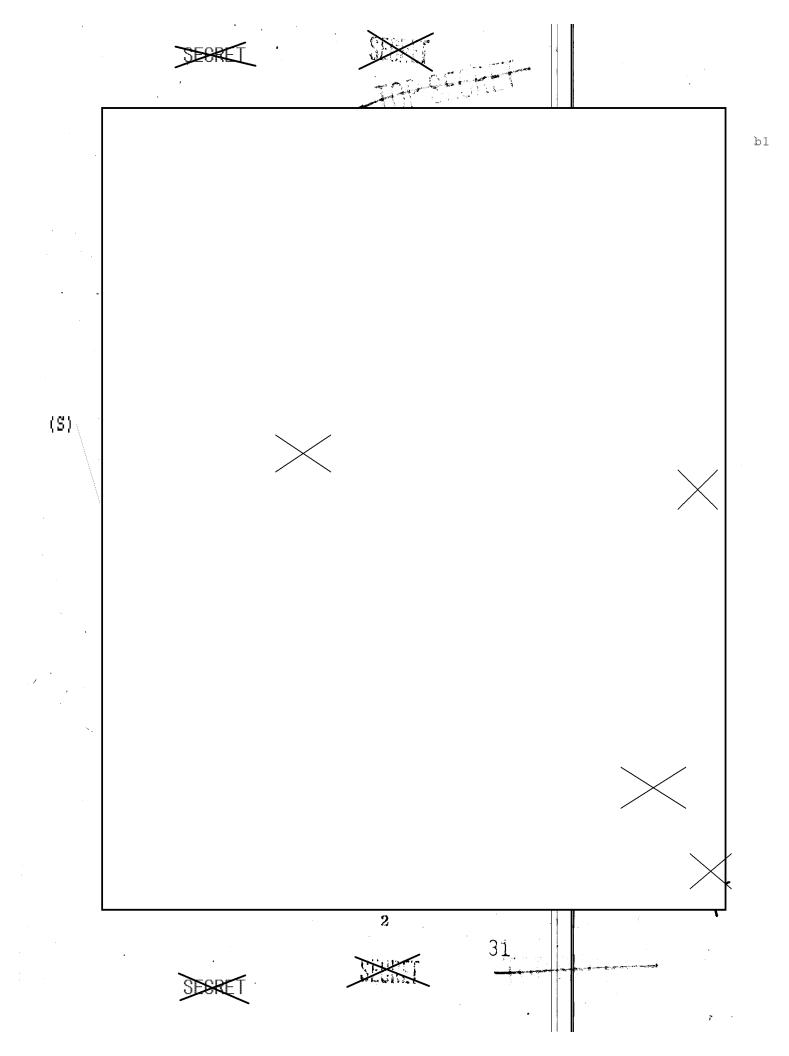
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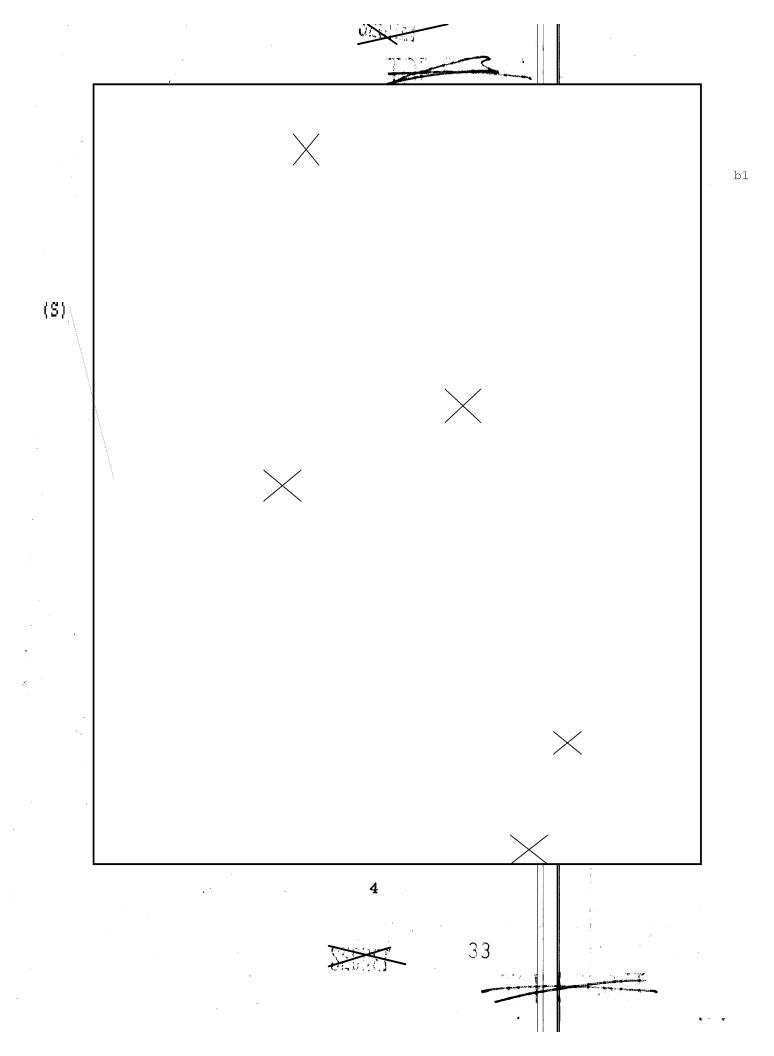
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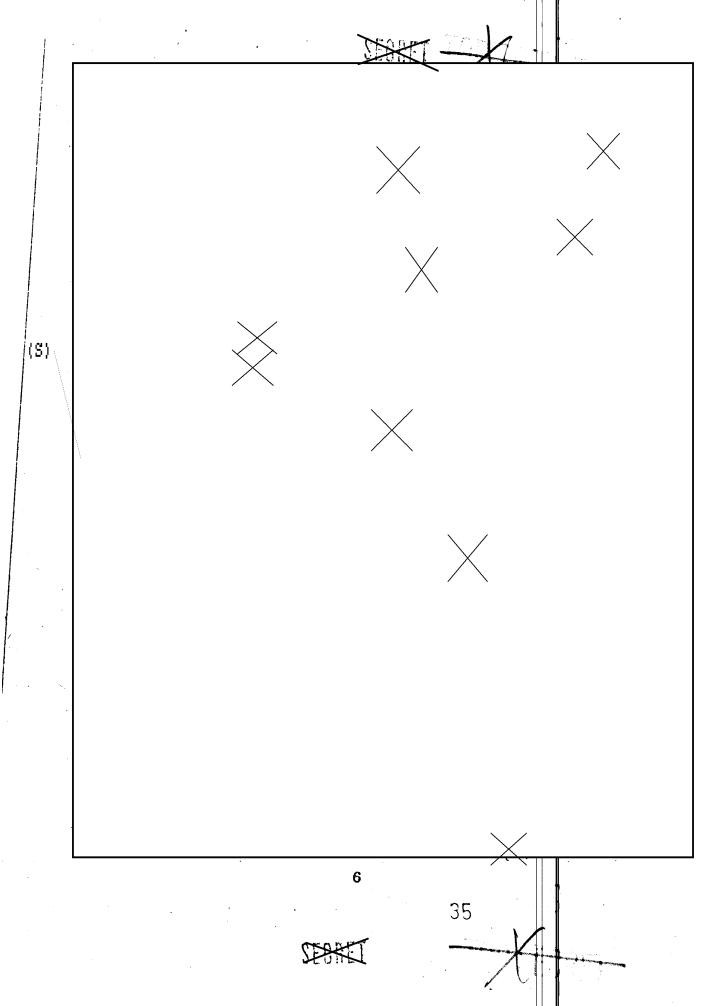


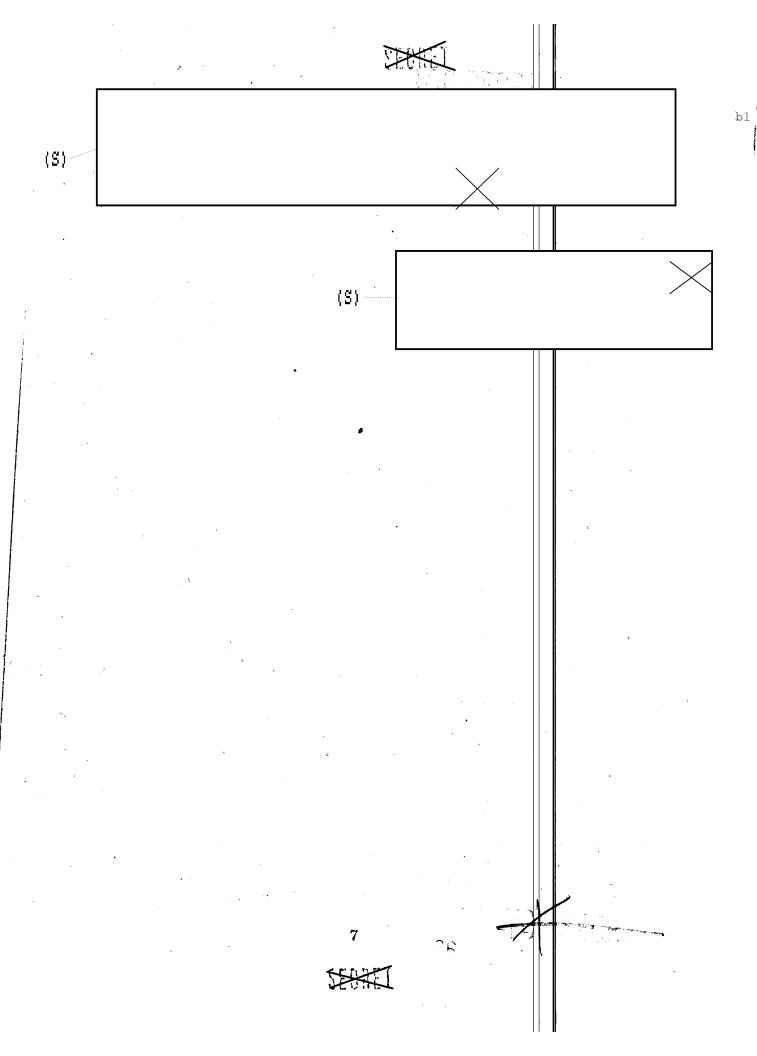


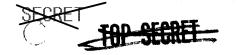




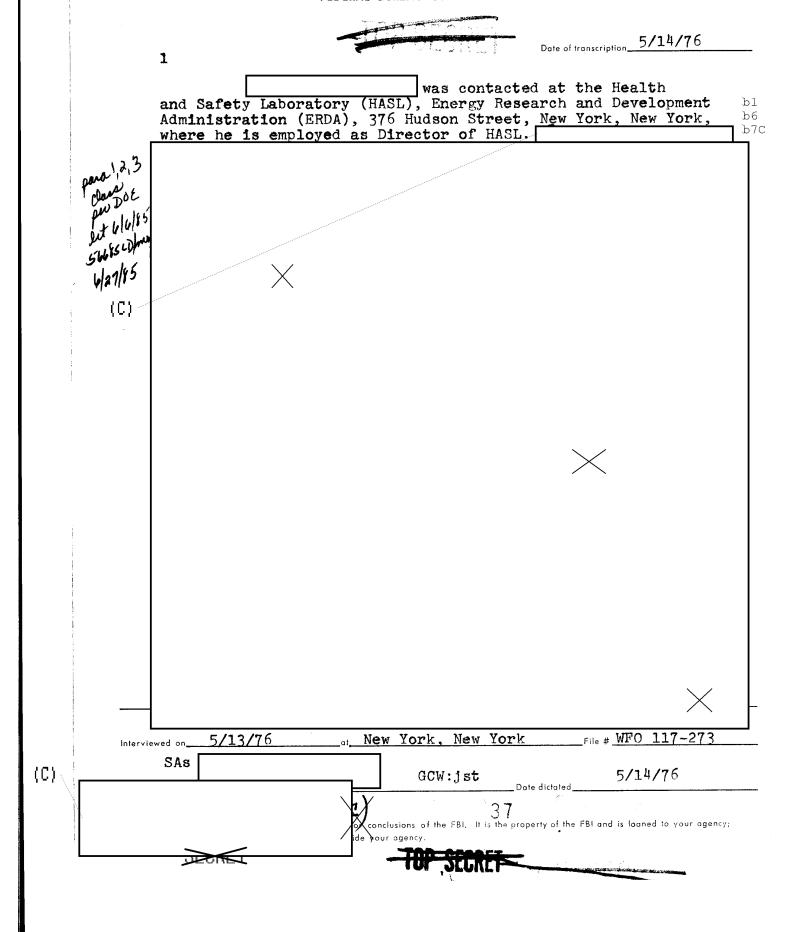








FEDERAL BUREAU OF INVESTIGATION



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WFO 117-273 b1 (C) 4/27/85 advised he did not make a report of this matter to the Atomic Energy Commission (AEC) Headquarters b6 in Washington, and did not receive any instructions or b7C pressures to do so. He remembered this matter did come to the attention of their Chief of Security at HASL then, HARRY WALSH, during the normal course of business. He believed this notification to WALSH actually resulted when WALSH reviewed the visitor logs and desired to know the nature of this visit, which is a routine inquiry. he did not personally consult WALSH regarding (0)b1 **(**¢).

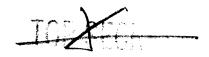
WFO 117-273 b1 (C) -related that he was not acquainted who is associated with NUMEC. Also, _____ b1 b6 b7C

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	On May 11, 1976, the following was obtained from	
	JAMES COMMOR, Secretary to the Cabinet and Staff Secretary to	
	the President, by who	b 6
	identified themselves to Mr. CONNOR as Special Agents of the FBI:	b70
	Mr. CONNOR served as the Director of Flanning and Analysis at the Atomic Energy Commission (AEC) from May, 1972, until the end of 1974 when he assumed duties at the White House. He has no first hand knowledge of the Nuclear Materials Equipment Corporation (NUMEC) or ZALMAN SHAFIRO, nor any real knowledge of the NUMEC situation obtained through his service at AEC. The first time Mr. CONNOR heard of NUMEC was four or five months ago when it was mentioned by his Secretary. Who during the 1960s, was the "prime" secretary to the Science Advisor on the White House Staff, a position which no longer exists. The above mention of NUMEC by his secretary was forgotten.	
Г	His current interest in the NUMBO situation was kindled indirectly by an article which appeared in "Time Magazine" about six weeks ago which was titled to the effect "How The Israelis Got The Bomb." Mr. CONNOR said that he is not technically knowledgeable in matters pertaining to nuclear weapons, but has learned enough to sense that there were a number of inconsistencies in the article.	1 lb:
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	However, the above set of circumstances prompted	
(S) <	Mr. CONNOR to look into the NUMEC situation	
``	Was available through the AEC, particularly their investigation of NUMEC's shortages of U-235 material. He described himself	э й.
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as appalled over what he felt was the superficiality of the AEC investigation with regard to NUMEC and SHAPIRO. He specifically noted the following items he considered to be weaknesses in the AEC effort:

NUMEC was believed to be in a weakened financial position, yet was able to pay about \$800,000 to the AEC for lost uranium. It was reported that the above was possible through a bank loan but insofar as Mr. CONNOR has been able to determine, no effort was made to verify the existence of a bank loan.

Mr. CONNOR felt that the AEC interview of SHAPIRO was not of a penetrating nature and that AEC officials failed to ask a large number of logical questions.

Failure to explore SHAPIRO's contacts with (S) ---LOWENTHAL puzzled Mr

> Mr. CONNOR did not understand the ready acceptance by AEC that significant records and material may have been destroyed in a vault fire at NUMEC.

He considered that the AEC's continued acceptance of NUMEC's sloppy procedures might be merely a glaring example of beaurocratic incompetence, but he is puzzled as to why the investigative effort directed at SHAPIRO and NUMEC seemed suddenly to come to a stop.

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WFO 117 273 (C) b1 **~**/ JOHN MARSH, Counselor to the President, and WILLIAM HYLAND, Deputy Assistant to the President for National Security Affairs, were interviewed at the White House on May 12 and b6 14, 1976, respectively, by SAS HYLAND advised that they had Both Mr. MARSH and Mr. HYLAND advised that they had b7C no personal or first-hand knowledge of ZALMAN SHAPIRO and the Nuclear Materials and Equipment Corporation. Both advised that they are privy to only that information furnished by JAMES CONNOR. Secretary to the Cabinet and Staff Secretary to the President, and some of that information gathered by (C) It is noted that the results of Mr. CONNOR's interview are set out above. (C)

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Much background information obtained from interviews noted in this report has been reported in the Administrative Background portion of the cover page inasmuch as this type information is not of the nature normally reported utilizing the FD-302 form.

ADMINISTRATIVE BACKGROUND

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WFO 117-273 JCC:jst

In addition to information in FD-302, on May 11, 1976, HAROLD D. THORNBURG, Acting Deputy Director, Office of Inspection and Enforcement, Nuclear Regulatory Commission (NRC), advised that JOHN A. HIND, Chief of the Safeguards Branch, NRC Region 3, 799 Roosevelt Road, Glen Ellyn, Illinois, had formerly been employed by Atomic Energy Commission at Oak Ridge, Tennessee, and had been involved in the inspections of the NUMEC plant in the past. Further, Energy Research and Development Administration (ERDA), telephone number had conducted investigations at NUMEC in the past relative to unexplained losses by the plant of U-235. who is currently employed by ERDA at Brookhaven National Laboratories, Upton, New York, telephone number also had indicated to THORNBURG that he had been involved in previous AEC inquiries at NUMEC. , a health physicist currently at the Albuquerque Operations Office of ERDA, had indicated in the past that he had been interested in possible health hazards at NUMEC and had commented that he had been involved in any inspection at NUMEC during which he had spent most of an entire night sitting in the rain at the NUMEC plant while attempting to discover any wrongdoing there. [Division of Safeguards, NRC, is currently conducting inquiries on behalf of NRC concerning the NUMEC plant.

THORNBURG expressed the opinion that current techniques employed by ERDA and NRC would readily differentiate between plutonium poisoning and poisoning resulting from overexposure to U-235. He added that urine and feces specimens from persons suffering from poisoning from U-235 would show a low beta reading while plutonium poisoning would show a high gamma reading, as well as an Americium content. He concluded that U-235 poisoning should be readily detectable from any other type radiation poisoning.

THORNBURG also informed that NRC considers U-235 enriched to 20 percent higher to be classified as weapon grade; although NRC and ERDA usually strive for 93 to 97 percent. Further, U-235 beyond 20 percent requires very little additional treatment to be incorporated into an actual or operation atomic bomb.

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In addition to information in FD-302, on May 11, 1976, KENNETH R. CHAPMAN, Director, Office of Nuclear Material Safety and Safeguards, Nuclear Regulatory Commission (NRC), advised that one of the best-qualified persons at NRC to furnish information concerning SHAPIRO and NUMEC was RALPH G. PAGE, Deputy Director, Division of Safeguards, NRC, who had been involved with the reports of investigation conducted by the Atomic Energy Commission concerning SHAPIRO and NUMEC. He also advised that both with Energy Research and Development Administration

(ERDA) have an interest in and should be knowledgeable concerning the NUMEC plant.

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WFO 117-273 JCC:jst

On May 11, 1976, RALPH G. PAGE, Deputy Director, Division of Safeguards, Nuclear Regulatory Commission (NRC), furnished the following information to SAS and in addition to that reported on FD-302.

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In connection with the reported loss (MUF) of about 100 kilograms of U-235 by the Nuclear Materials and Equipment Corporation (NUMEC) which was discovered by the Atomic Energy Commission (AEC) in 1965, AEC investigation subsequently determined this loss to be about 60 kilograms and to have occurred over a six-year period from about 1959 to 1965. Prior to 1965, AEC had not required NUMEC to make a complete physical inventory of U-235. In late 1965 or 1966. AEC sent a task force headed by Dr. SAMUEL C. T. MC DOWELL to conduct an inquiry into NUMEC operations. This task force submitted a report in 1966 to Dr. GLEN SEABORG, Chairman of AEC and based upon recommendations arising from the task force report, AEC established in 1967 the Office of Safeguards and Materials Management and a new Division of Nuclear Safeguards, with a view to preventing future losses such as occurred at NUMEC

As related by PAGE, DOUGLAS GEORGE was the head of the AEC Division of Nuclear Materials Management in 1965 and would be knowledgeable concerning NUMEC. GEORGE is presently a Vice President of a private firm, Nuclear Surveillance and Auditing Corporation (NUSAC), in the Washington, D.C. (WDC), area.

At this same time in 1965, JOHN VINCIGERRA (phonetic), was AEC Assistant General Manager for Administration and should be knowledgeable concerning NUMEC. He is retired from AEC and is a Vice President of an unknown firm in Joplin, Missouri.

The following other persons were also at AEC in 1965 and should be knowledgeable concerning the NUMEC matter:

HAROLD PRICE, former AEC Director of Regulations.

CHRISTOPHER HENDERSON, former AEC Assistant Director of Regulations, who is now retired, residing on the Eastern Shore of Maryland.

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EBER R. PRICE, former AEC Chief of State and Licensee Relations, who is retired in the WDC area and involved with an Episcopal Church on Massachusetts Avenue in WDC.

WILLIAM T. RILEY, former AEC Director of Security, who was rumored to have been terminated at AEC for borrowing money from AEC subordinates in order to gamble on horseracing.

PAUL GAUGHRAN, former Director of Security at AEC, who succeeded RILEY and who retired and is currently a consultant to the Joint Committee on Atomic Energy (JCAE).

former member of AEC Task Force be	
which inspected NUMEC under MC DOWELL. following the b7	
NUMEC inspection went to work for NUMEC as head of its	
Accountability Section and he is currently employed by the	
International Atomic Energy Agency Secretariat in Vienna,	
Austria.	
who was formerly employed with	
the Nuclear Fuel Services in West Valley, New York, and later	
in 1966 or 1967 by AEC in the Division of Nuclear Materials	
Safeguards. He is currently employed as a Vice President	
for the E. R. Johnson Associates, a private firm in the WDC	
area, which is a competitor of NUSAC.	
formerly AEC inspector from the	
Oak Ridge Operations Office who was believed to have participate	ed
in NUMEC inspections and who is believed to be currently	
assigned to the Oak Ridge Operations Office of Energy Research	
and Development Administration (ERDA), Oak Ridge, Tennessee.	
CHARLES A. KELLER, an AEC Assistant to at	
the Oak Ridge Operations Office, who is now retired, possibly	
in Oak Ridge, Tennessee.	
former AEC inspector with Chicago	
Operations Office of AEC and who is currently assigned to the	

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ERDA Chicago Operations Office.

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MPO 117-273 JUS:jet

During interview of JAMES COMMOR. Secretary to the Cabinet and Staff Secretary to the President. on May 11, 1976, CONTOP advised that the President is amore of instant matter and extramely into rested in it. The President feels that it is necessary as best as possible to understand what happened at MUMFC and circumstances surrounding the situation. He is particularly concerned with any indication of a prior cover-up. The Prosident has met with Senators PASTOPT and BAMER of the Joint Courtessional Committee on Atomic Engravers to this matter and it has been acreed that the Cosmittee will take no action until the investigation is complete. It has also been agreed that the matter is on and to-know basis at the White House and at the Committee. In is Course's undersponding that only Sonthors PASTORN and DARCH raid GEORGE MURRY of the Committee are aware of the Law swingsion. At the Mhit House only four prople know of the law softmatter and it is the home of the Mhit. House that the law estimation will not now to the attention of the grasral public.

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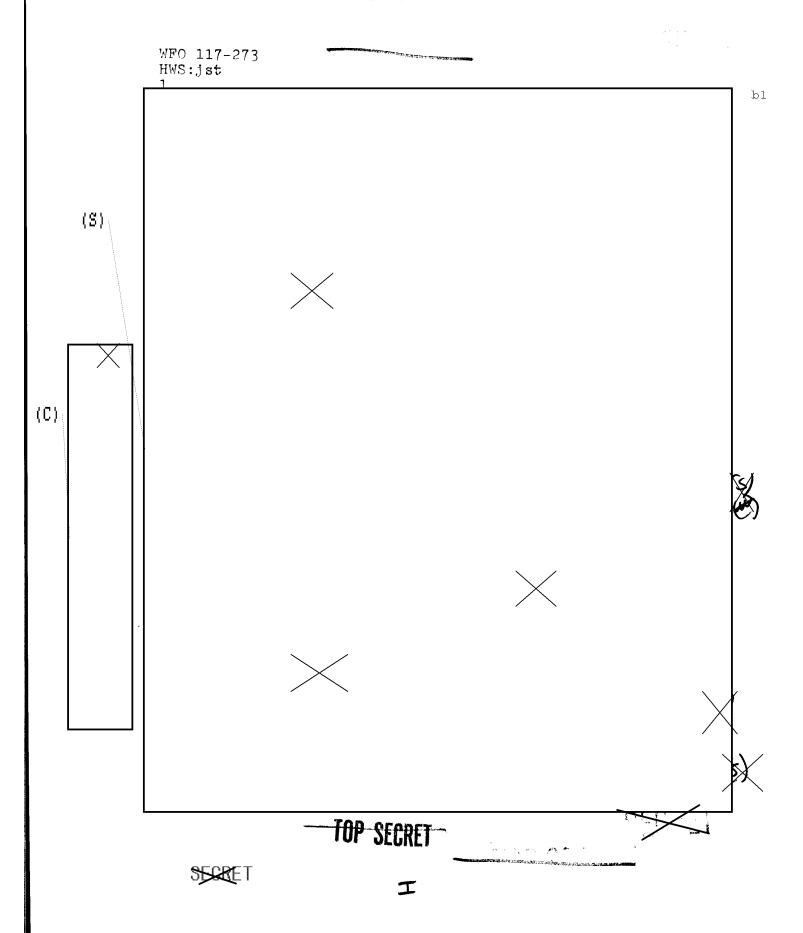
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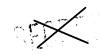
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GEORGE MURPHY was interviewed in his office, Room H 403, in the Capitol on May 13, 1976, for over an hour, during which time he provided no substantive information and the names of only four individuals at the Atomic Energy Commission (AEC) to be contacted for information, names already recognized by WFO as individuals to be contacted in this matter. After attempts to determine the reason for his committee's renewed interest in this case, MURPHY finally and apparently reluctantly responded by saying that for such information the interviewing agents would have to contact JOHN MINTZ at FBI Headquarters. When asked whether the committee was in possession of any information whatsoever which would be of assistance to the Bureau in its current investigation, he again referred the agents to MINTZ for such data. He declined to discuss the current state and the degree and the nature of the Committee's interest at this time.

Of possible interest is a reference made by MURPHY	
to an opinion rendered by the Department of Justice on March	
3, 1966, to the effect that the circumstances suggesting a	
possible conflict of interest on the part ofand	<u>d.</u>
his employment by NUMEC did not warrant further inquiry	
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(S) ·

She added that there is no one on the Committee staff now who is knowledgeable in the matter in question. MURPHY said the matter is being held quite close on the staff, and he prided himself in the fact that his committee and staff have had an outstanding record for maintaining necessary security.

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NUMBER EMPLOYEES BY POSUMION AND TIME FRAME

ZALMAN MORDECAI SMAPIRO President 1955-1967

OSCAR SHALOT GRAY Vice-President - Treasurer 1968

LEOUARD P. PEPKOWITZ Vic -- President 1968

JACK R. MEHMAN Secretary, Goderal Council 1965-1963

Manager of Europay Conversion Department 1966

(5)

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1966-1968

Formerly Inspector, ACC, at least 1960-1965

Office is Charce of Inventory of Wault at NUMEC while fire occurred in 1966.

FREDERICK PORSONER Vic - President Resigned 1963

MERROITH S. JOHNSON Controller Assistant Treasurer 1968

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WFO 117-273 RMS:jst 2



LEON FOLK, JUNIOR Director 1968

WILLIAM FONDILLER Director 1968

I. F. LEVITT Director 1968

PRESSLEY H. MCCANCU Diractor 1963

1965-1968

Personal Assistant to SHAPIRO, MUIEC 1968 - became Consulvant to Vice-President of Consolidated. Edison, New York.

Ampiovas. Accountability Section Laft NULLE 1966

Chamist - trouble shooter

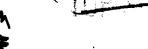
Security Officer

Unknown position, HUTEC 1968-1969

Manager, Matallurgical and Plant Services

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Manager, Hofnium Facility 1968

Director of Advanced Projects

Assistant, Energy Conversion Department

Director of Research and Development

Manager, Engineering and Accountibility

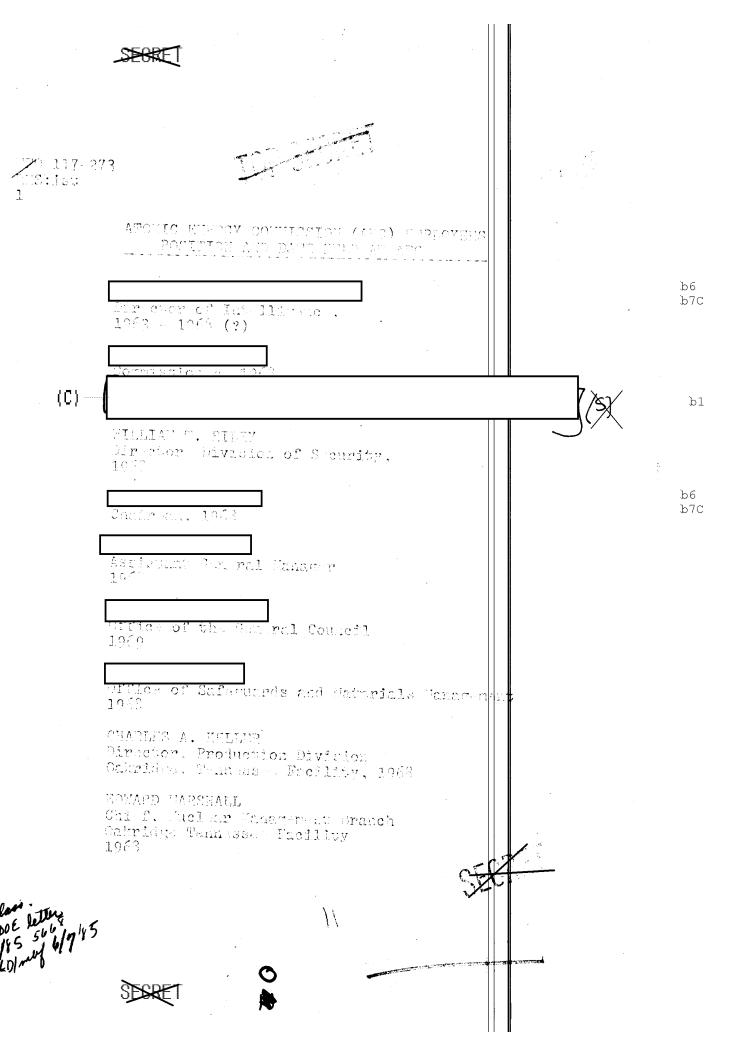
Manager, Accountant Section 1968

Manager, Nuclear Analysis and Utilities Service

Manager, Marketing

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EDWARD WARRIAND & Chief. Muclear Chambers of Eronch Cobridge. Warmarana Profiley 1960

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LAMBEROS D. Los Director. Division of Compliance 1968

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ROPETS (ROLLIES) LOWESTRIN 1950-1965 as dither Assistant Director or Director. Division of Liceasing and Raculations, AEC.

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Problety Panager of New York Operations AEC

SI SPAINER Direction Waterfuls Management, New York Offic:

Unknown possible, at AEC during pertin at pried.
Awar of proplems at Mange.

datacy: position at AMO during newalated period.

B low limited are currently at Harry Research and Davelonness Administration or Parional Regulatory Complession as induction:

MEM POWER, ORGANIAN Director, Office of Muclear Materials. Safety and Saferyards, 1880

Office of Each an Per-ricks. Safety and Safe marks, 1990

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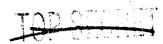
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PANDOE PLATO 195

HARVEY LYON
Director. Division of Safacuards and Security
Germantown, Caryland, ERDA

ROBERT E. THARP
Deputy Jar eror, Division of Sefequards and Security,
Germanbown, Maryland, ERDA





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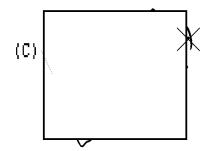
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(2) Will report results of additional interviews conducted on a continuing basis, proceeding in a manner to prevent unnecessary contacts which have no logical bearing in this matter.

(3) Will closely coordinate all activities with FBIHQ.



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UNITED STATES DEPARTMENT OF JUSTICE FEDERAL BUREAU OF INVESTIGATION

EXEMPTED FROM AUTOMATIC DECLASSIFICATION AUTHORITY DERIVED FROM: FBI AUTOMATIC DECLASSIFICATION GUIDE EXEMPTION CODE 25X(1,6) DATE 10-16-2008

Copy to:

Report of:

Date:

Office:

Washington, D. C. b7C

Field Office File #:

117-273

Bureau File #:

117-2564

Title:

ZALMAN MORDECAI SHAPTRO

Character-

ATOMIC ENERGY ACT.

OBSTRUCTION OF JUSTICE

Sympsis: Since 4/29/76, this investigation has been continuing, based upon a request of the United States Attorney General to determine whether or not a diversion of nuclear material had occurred at the Nuclear Materials and Equipment Corporation (NUVEC). Apollo, Pannsylvania, partially owned and operated by the

(S) -

Investigation to date, including interviews of individuals reportedly in possession of information pertaining to this matter and review of some government records has resulted in locating no evidenciary material or statements of fact which are avidenciary in this matter.

- P -

AT WASHINGTON, D. C.

subject.

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12/8/83 SA4 elw/alm
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☆ U.S.GPO:1975-0-575-841

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WASHINGTON FIFLD

AT WASHINGTON, D. C. (1) Will continue to report results of file reviews, and logical interviews conducted, with all activities coordinated at FBIHQ.

- (2) Will report results of the file review of Livermore Laboratory files pertaining to UUMFC contacts.
- (3). Will immediately advis- PRIMO of any major policy decision from other government agencies which will affect this investigation.

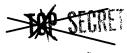




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The Autorsey Ten ral of the United Spatis requested shat an investigation be conducted nertaining to the question of whether or not a diversion of muclear maverial had taken place at the Muclear Maderials and Mouinment Corporation (MUMMO), Apollo, Penasylvania, partially operated and owned by the subject. ZALMAN MODDECAL SHAPIRO. b1 (S) -Suggestion was faithfathed on April 29, 1976. DABLE OF COMPENES Paca Numbar T. IMPROVIEWS CHAPLES D. BREWAN . Α. DAN J. BREUMAH. JO. JAMES H. COMPAH . F). MAY BARL HARRIS **)**. Τ. b6 F . b7C 9. WILLIAM F. H . II. POCUMENTS AND SOURCE INFORMATION Α. (S) ~ WATERIAL OF AEC PEPOPES, APRIL 6.



1966, ON NUMBER

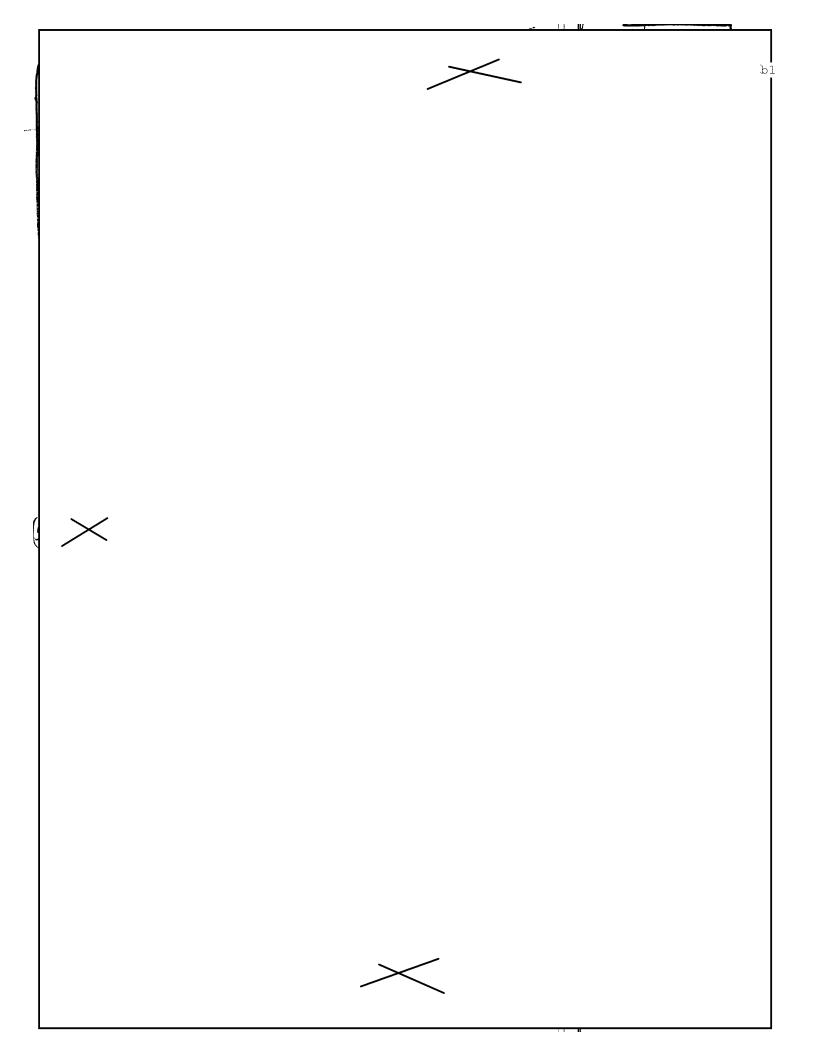
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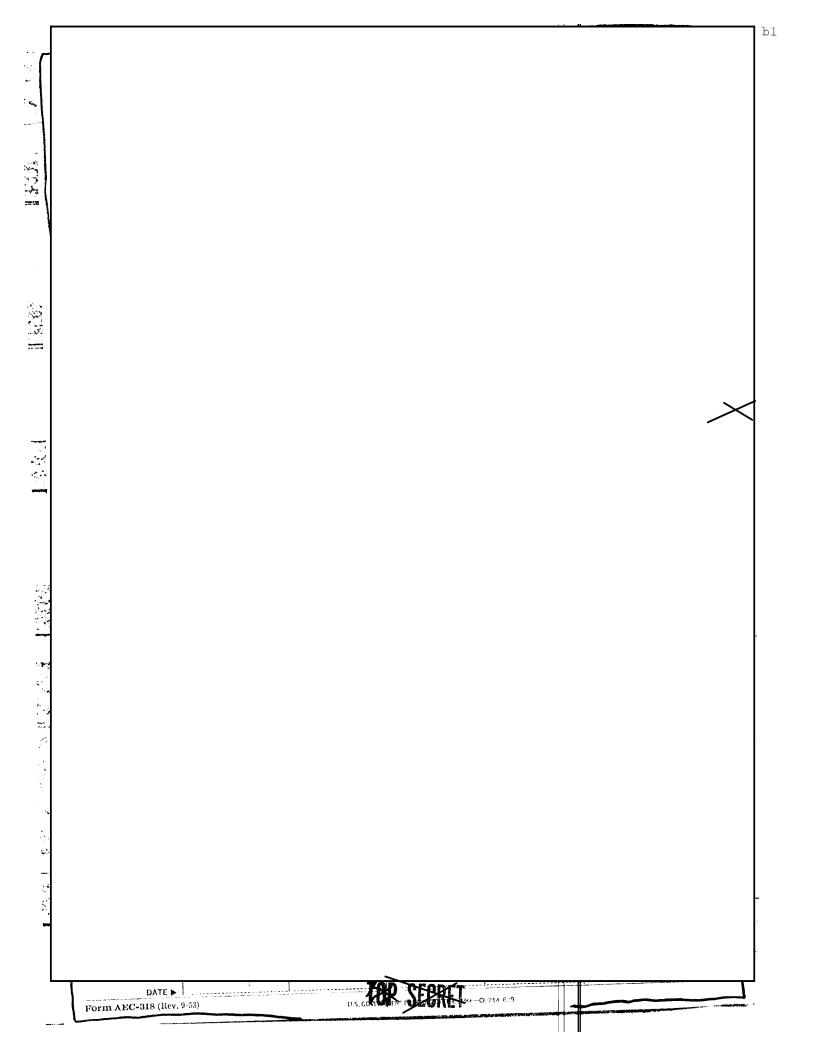
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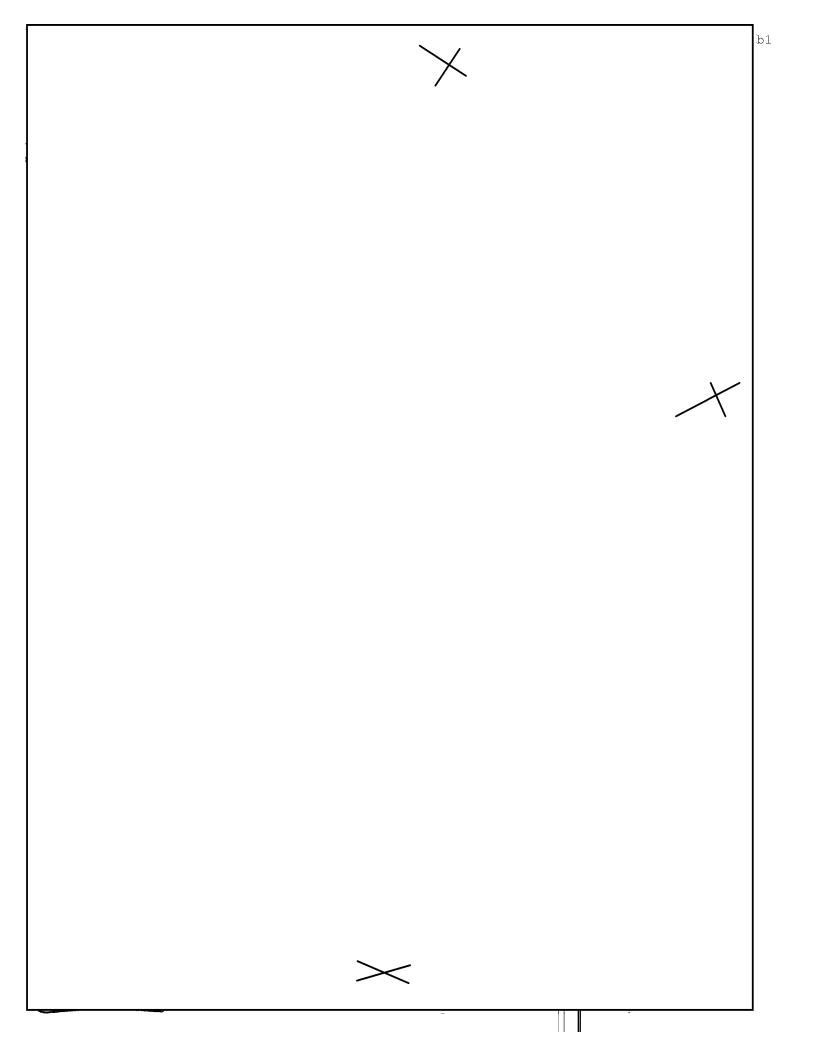
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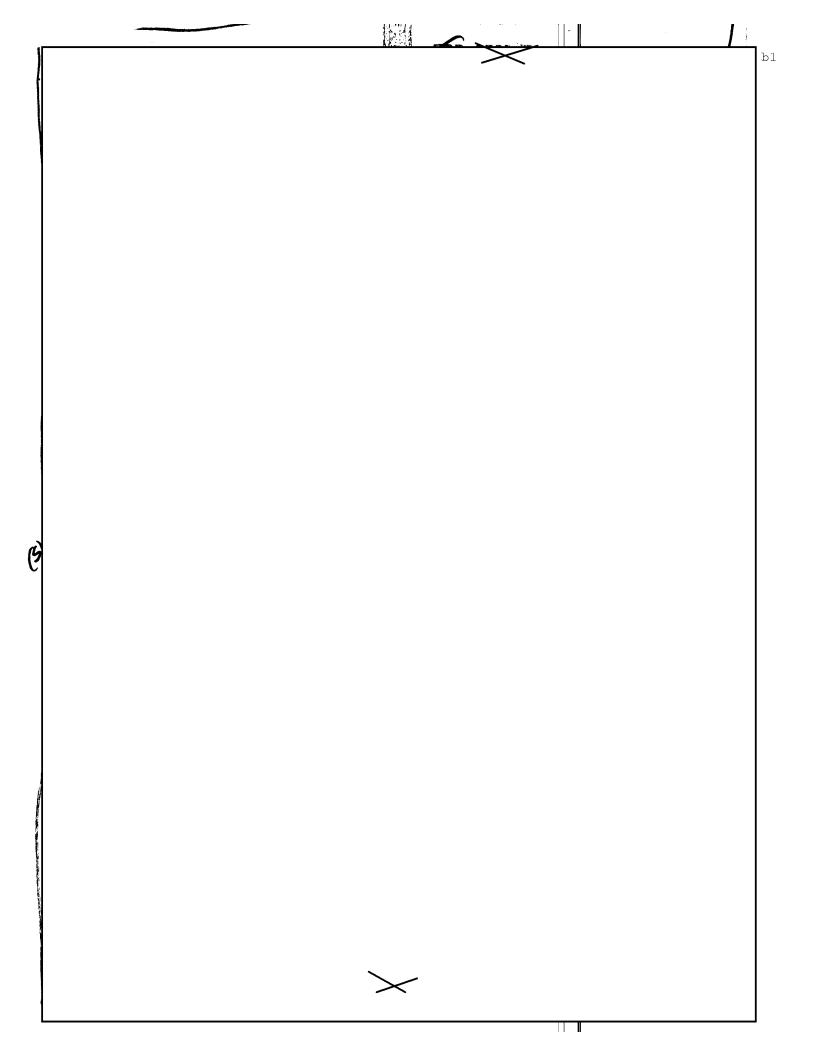


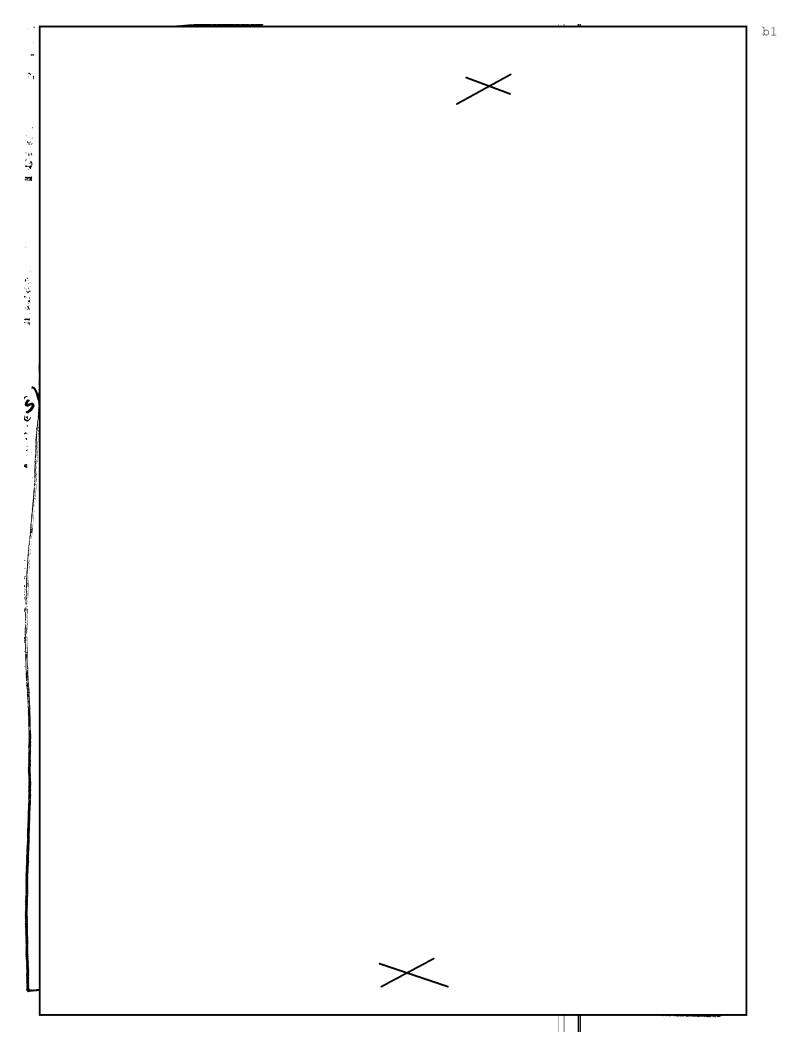






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Date of transcription_	5/25/76
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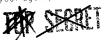
b6 b7C

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BRENNAN stated at the outset that he does not remember or recall any such case from his FBI investigative and administrative experience. He surmised that another possible reason for the contact with him might be his recent connection with the Mitre Corporation of Mc Lean, Virginia, for which firm he was under contract until last fall for the preparation of a research study on possible threats to nuclear facilities (Mitre Technical Report - MTR 7022 - dated September, 1975. and entitled "The Threat to Licensed Nuclear Facilities.")

pur DOE pur	contract, h Regulatory been assign to study. connection related tha the NRC sec based on hi Commission opposition example, ar concern the	e became ac Commission ed as the p It was with his du the recogn urity syste (AEC) and cother single there had incident se	quainted with (NRC) in Beth roject monito who, accorties at NRC in ized certain and According rience within the current re-mentioned re-	esda, Marylar for the alding to BREN the fall control of the storm of the Atomic awareness research stu	NNAN, in of 1975, loopholes in Energy of recognized dy, for	-
wwec led	losses Inv	At this time	e also clear facilit	y in Erwin,	Tennessee.	b1
2/18/19/10			Alexandria, V		File # <u>WFO 117-27</u>	/3
SIGNATURE	SAS	0	and HWS:jst	Date dictated_	5/20/76	b6 b7C
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		BRENNAN said this was the first time he became aware of a "NUMEC problem."		.b1
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¥				
	1	BRENNAN stated further that in March, 1976, told him that he was in touch with GEORGE MURPHY and an assistant on the JCAE staff. BRENNAN said he also arranged for to meet with one of Senator BAKER's aides, one Shortly after Easter of 1976, BRENNAN received a call from Senator BAKER, who wondered whether he should see personally. BRENNAN said he suggested that, since he was not certain had anything valid to offer, Senator BAKER's staff handle any contact with		6 7C
		BRENNAN commented that who seemed very sincere in his concern about the existence of a tremendous danger to this country, was an unknown quantity to him.		
(C) _/		at the Energy Research and Development Administration in Germantown, Maryland, be contacted for further information on Dr. SHAPIRO, NUMEC, and related matters.		
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		And make the		

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TOP STERET FEDERAL BUREAU OF INVESTIGATION

Date of transcription 5/21/76 1 DAN J. BRENNAN, JR., Retired, was contacted at his residence, 505 Brooklyn Boulevard, Sea Girt, New Jersey. At the outset of the interview, BRENNAN was advised by b6 this inquiry involved possible illegal b7C collaboration by a Doctor ZALMAN SHAPIRO, who was associated with NUMEC (Nuclear Materials and Equipment Corporation), Lwith the Israeli Government in that country's nuclear weapons program. Further, BRENNAN was informed this matter was extremely sensitive and should be treated with the utmost confidentiality. He furnished the following information BRENNAN advised he was a former Special Agent with the Federal Bureau of Investigation (FBI). He retired from the FBI during January, 1973. From approximately 1962 until 1971, he served at FBI Headquarters, Washington, D.C. (WDC), as a Section Chief in the Liaison Section. In this position he collected written reports from Special Agents who had the responsibility of maintaining regular contact (C) with assorted government agencies regarding matters of interest to the FBI. b1 (C) Upon receipt of reports from employees like PAPICH and FITZGERALD, he would channel the information to the particular section which had the investigative responsibility for the violation in Regarding his reported handling of documents from PAPICH dealing with Dr. SHAPIRO and NUMEC, BRENNAN stated he did not recall any information concerning SHAPIRO or He advised his administrative duties involved a voluminous quantity of paperwork, thereby making it impossible to become personally acquainted with every case that passed across his desk. Furthermore, BRENNAN reported he was not familiar with a and he was vaguely familiar with b6 however, he was unable to attach any b7C significance to 5/19/76 Sea Girt, New Jersey File # WFO 117-273 Interviewed on_ SAs 5/21/76 GCW:jst Date dictated

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FEDERAL BUREAU OF INVESTIGATION

5/25/76 1 Date of transcription_ On May 18, 1976, Analyst, Safeguards Division, Nuclear Regulatory Commission Safeguards b6 b7C (NRC), Bethesda, Marvland, was advised by Special Agents (SAs) 」and 「 after they had identified themselves as SAs of the Federal Bureau of Investigation (FBI), that the Attorney General (AG) of the United States (US) had specifically requested the FBI to conduct an investigation into the matter of the unexplained losses at a company called Nuclear Materials and Equipment Corporation (NUMEC), Apollo, Pennsylvania, and a man named ZALMAN SHAPIRO. The FBI was instructed to determine if, in fact, a diversion of material had taken place during the advised that he has worked for the Atomic Energy Commission (AEC) since 1970. He has been with NRC since September, 1975. About eight months ago he came across the NUMEC situation during a safeguards study for the NRC. Previously, had been detailed by the NRC to help on the Mitre Technical Report, published by the Mitre Corporation 5113185 in September, 1975. (S)(0)b1 b6 b7C advised that he has no specific information pertaining to any details as to any possible diversion of special nuclear materials (SNM) at NUMEC. He does not know anyone who might possess this information (S)5/18/76 Bethesda, Maryland Interviewed on. File #WFO 117-273 SAs and b6 AES:jst b7C 5/21/76 _Date dictated This document contains neither recommendations nor conclusions of the FBI. It is the property of the FBI and is loaned to your agency;

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WFO 117~273

advised that the percentages of unaccountable SNM have increased, although the controls supposedly have been tightened by the Government. He advised that one really cannot definitely tell from the records available where the control over SNM is weak, allowing for a diversion. L feels that a diversion has taken place and may be still taking place inasmuch as the unaccountable SNM is larger now than in the past. This may be due to poor procedures, but since he has tried to focus on the issue at NRC and has encountered opposition to his suggestions to solve the problems of unaccountability, he feels that someone is trying to keep information suppressed. Also, since SNM can be sold for a high price, there may be more than political motives involved, if a diversion had occurred and may currently be going on at NUMEC, and for that matter at other facilities such as the Nuclear Fuel Services (NFS), Erwin, Tennessee.

At the present time, the Safeguards Division of NRC provides control over the SNM so it can be accounted for and not diverted. There is an accounting every 60 days at various facilities. Although the system is much tighter with more regulations and controls, the loss is still greater on a percentage basis than in the past. ______advised that he has had technical experience in the past, and has worked in other areas with SNM, and not just safeguards. He feels that the current standards allow for too wide a margin of error as it is, not counting the unexplained losses.

In his opinion, unidentified individuals have been using the system for their personal gains by diverting material on an ongoing basis.

In the past when there has been a substantial unexplained loss of SNM and after inspections by NRC, the Director of the Regional Office, NRC, has signed the report. in fact writing off the loss, without any penalty to the licensed company involved.

He stated that one report that can be obtained from NRC for background information, that includes some of the 1960s' losses at NUMEC, is the "Overview Study of Existing Safeguards Regulations," dated April 16, 1976, as the first draft. The final draft is dated April 29, 1976. In addition, a report numbered S/HO - 75, pertaining to the compilation of material and accounting data of SNM, may be of interest.

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WFO 117-273

When there was too much unexplained loss or "MUF", there was and is no effective action being taken to keep this from happening again. He stated that there have been excessive MUFs at NFS and NUMEC, as licensed companies, of SNM on an ongoing basis for years. He also advised that also ERDA's accounting procedures have reflected very bad losses at their facilities.

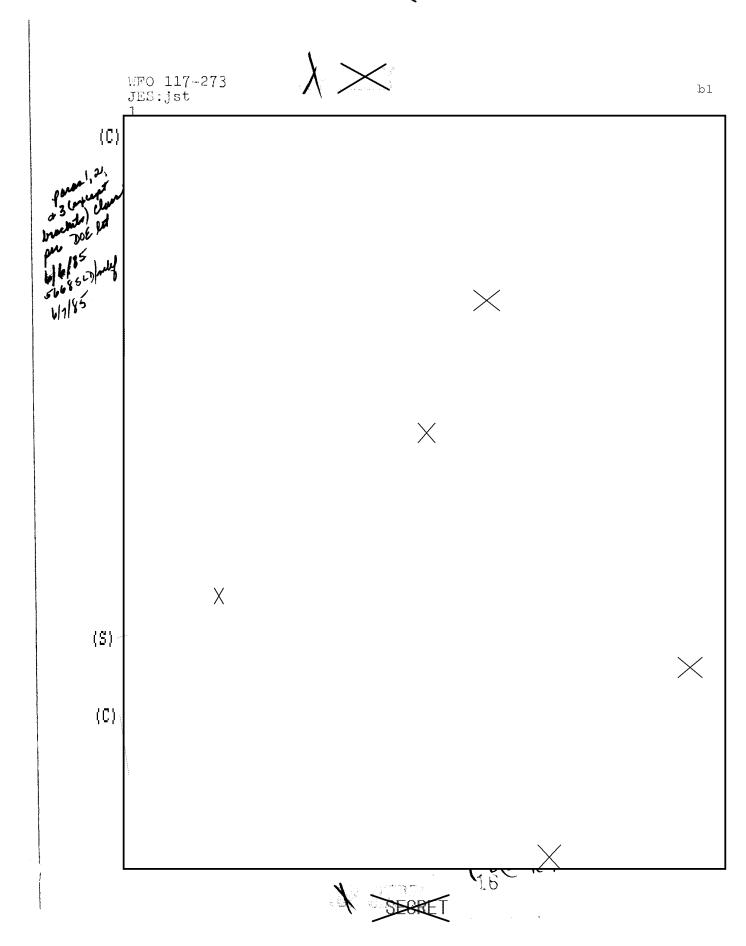
feels that U-235 can be traced back to the facility which has processed it, based on the isotopic differences.

He feels that the following areas should be looked into for any possible suppression of information for any motive: (1) Inspectors on the site; (2) Individuals on the Regional Levels with decision-making potential; and (3) the matter of those who control MUF, and weapons design information. If these areas are investigated, then one may be able to determine if there was a systematic diversion. He added that aspects of a classified nature would have to be cleared with RAY BRADY, Chief of Security, NRC, before ______ felt that he could go into specifics.

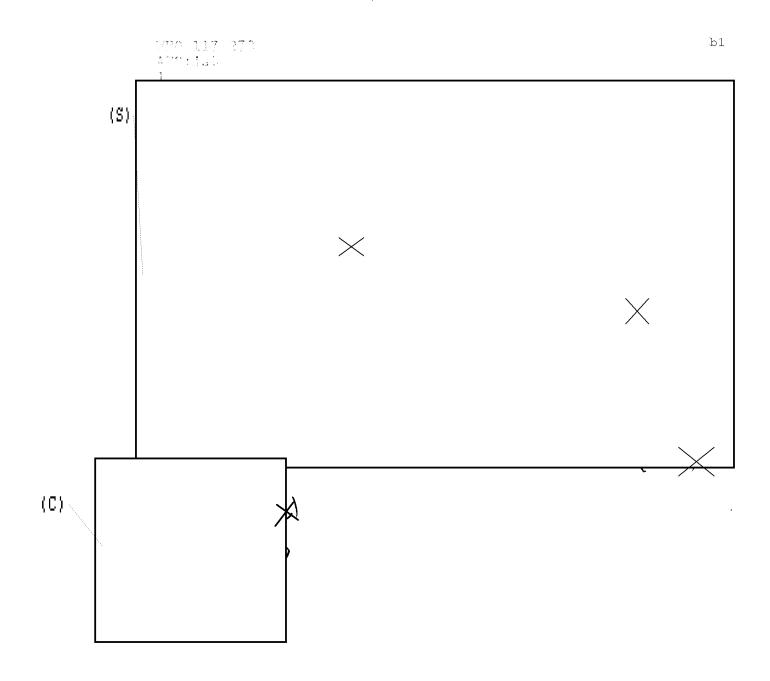
______ advised that he is also working with ______ at NRC, with relationship to current problems at NRC.

can also be helpful in this matter.

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INVESTIGATION AT LIVERMORE, CALIFORNIA

THP SERRET

FEDERAL BUREAU OF INVESTIGATION

1		Date of transcription 5/27/76
Lawrence Livermon was advised of the was ad conjunction with General of the Un of nuclear materi Corporation (NUME SHAPIRO was in ch	dvised that contact we an investigation required States pertaining als from Nuclear Mate (C), Apollo, Pennsylva arge of that company	as being made in uested by the Attorney ng to possible diversion erials and Equipment
Agent (SA) of the	advised that he i Federal Bureau of Ir	is a former Special avestigation (FBI).
documents at LLL	erent locations. How during the early 1960	ne present time there ments at LLL, located wever, there were less Os. He was not sure of les used in the 1960s.
personal file of		ne following from the
Dates of employme	nt at LLL:	
Extended military	leave:	
Date of birth: Place of birth: Height: Weight: Hair: Eyes:	6'0" 180 poun Brown Gray	ds
to the slow nucles project proved to	worked on the "Rover ar reaction that fuel	ed rockets. This
his immediate supe		
his immediate supe	Livermore,	File # WFO 117-273

FOP SECRE

WFO 117-273 legally changed his name from b6 to b7C in 1957. At the time he was hired, he was expecting to obtain a PhD in nuclear physics and was in the upper 10 percent of his class at Harvard University. His references were: Dr. NORMAN RAMSEY, Professor, Harvard University Dr. J. C. STREET, Chairman, Physics Department, Harvard University Dr. W. PRESTON, Director, Cyclatron Laboratory, Harvard University, Cambridge, Massachusetts b1 (S) On May 20, 1969. the Atomic Energy Commission (AEC) expressed an interest in since he had left the United b6 States for Israel and had changed his name to Since b7C THEODORE MERKLE was deceased at that time, the Joint Committee on Atomic Energy interviewed MERKLE's assistant. The results of these inquiries were not noted in s file. added that he had no personal knowledge of or of NUMEC operations. (C)b1 211

TAD SECRET

WFO 117-273 AES:jst Security Officer, b6 On May 24, 1976, Lawrence Livermore Laboratory (LLL), Livermore, California, b7C made available the following files: Name: Assistant to the Deputy Director, Position: LLL, Livermore, California Director, Navada Test Site, LLL, and part of the "Z" Division of LLL. Top Secret Q, Fabruary, 1948, to May, 1951, worked at Berkeley Clearance: with clearance reverified June 2, 1948 October, 1952, to present carried clearance February, 1948, to May, 1951 Employment: at LLL. April, 1943, to January, 1946, in military. May, 1951, to October, 1952, racallad. October, 1952, to present, LLL. 1948 AB Dagree from Barkeley, Education: University of California b6 Date of birth: b7C Place of birth: 6 fest, 2 inches Height: 185 pounds Weight: Blue Eyes:

W DAKE

Hair:

Function at LLL:

Brown

and testing

Engineer for management functions

(S)

WFO 117-273

Marital status:

Trips:

Married with four sons

Name:

Employed at LLL:

Date of birth:

Place of birth:

Height:

Waight:

Hair:

Eyes:

United States Army:

Education:

Married:

Travel:

(C)

Function:

MAX EARL HARRIS

February 5, 1948, to present

November 12, 1914

Grayburg, Texas

6 feet, 2 inches

185 pounds

Brown

Gray

1946 to 1948

BS Degree in Mechanical

Engineering

1st wife, PATRICIA FELDMAN

HARRIS

2nd wife, RUTH HAUVER

3rd wife, 1963, NAOMI SMITH

HARRIS

1966 and 1968 travelled in

Europe. In Tel Aviv December 9,

1968, through December 12, 1968

Special Materials procurement

from other companies

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FEDERAL BUREAU OF INVESTIGATION

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Interviewed on 5/2				File # WFO 117-273	 .b6 .b7C
	the Deput; Livermore Site. LLL Agents (S that the of one Dr Materials Pennsylva sensitive United St dealings with LLL matter of met SHAPI and was a may have several y to other with NUMB how to has Since the equipment by LLL, how bad the prob: series of estimate accounted contamin used. T "Pluto"	On May 24, 197 Livermore, California. Site. LLL. Agents (SAs) of the Federal that the interview was of one Dr. ZALMAN MORDE Materials and Equipment Pennsylvania, pursuant sensitive nature reques United States. From memory, dealings with LLL from recalled, NUMEC with LLL and was dealing matter of dealing with met SHAPIRO once when hand was accompanied by may have been contracted several years have pass to other material. When it came with NUMEC over the Pahow to handle the contastince the difference of equipment noted by NUMED by LLL, one how bad the clean-up was the problem was not as series of proposals suggested from the problem was not as series of material and accounted for by loss and contaminated, was in found contaminated, was i	On May 24, 1976, Livermore, California, working as Dir. Site. LLL. Agents (SAs) of the Federal Bureau of that the interview was in regard to for one Dr. ZALMAN MORDECAI SHAPIRO, a Materials and Equipment Corporation (Pennsylvania, pursuant to an investing sensitive nature requested by the Atturited States. From memory, recalled, NUMEC was was work: with LLL and was dealing in plutonium matter of dealing with NUMEC was a "matter of material los several years have passed, and to other material. When it came time to termit with NUMEC over the P 238 contract, how to handle the contaminated equipment noted by NUMEC seemed to be by LLL, one of LLL went how bad the clean-up was going to be the problem was not as bad as NUMEC series of proposals suggested by NUM remembered a figure of \$130, estimate of material and equipment in accounted for by loss and contaminate contaminated, was in fact, not contaminated. The material processed at the "Pluto" reactor, and there was quite stated on 5/24/76 Livermore, California was accompanied on	On May 24, 1976, Assi Assi Athe Deputy Director, Lawrence Livermore Laborato Livermore, California, working as Director, Neva Site. LLL. Who identified the Agents (SAs) of the Federal Bureau of Investigat that the interview was in regard to his possible of one Dr. ZALMAN MORDECAI SHAPIRO, and his firm Materials and Equipment Corporation (NUMEC) in A Pennsylvania, pursuant to an investigation of a sensitive nature requested by the Attorney Gener United States. From memory, recalled that NUM dealings with LLL from about 1962 and 1965. At recalled, NUMEC was was working under co with LLL and was dealing in plutonium (P 238). matter of dealing with NUMEC was a "mess". met SHAPIRO once when he came to the laboratory and was accompanied by one MAX HARRIS, of LLL. may have been contracted, but was not so several years have passed, and had no re to other material. When it came time to terminate working with NUMEC over the P 238 contract, there were the how to handle the contaminated equipment and may Since the difference of material lost and amount equipment noted by NUMEC seemed to be more than by LLL, one of LLL went to NUMEC to how bad the clean-up was going to be. die the problem was not as bad as NUMEC had indicat series of proposals suggested by NUMEC to resol remembered a figure of \$130,000 that re estimate of material and equipment in question accounted for by loss and contamination. found that equipment NUMEC cla contaminated, was in fact, not contaminated, no used. The material processed at that time was "Pluto" reactor, and there was quite a discrepa	On May 24, 1976, Assistant to the Deputy Director, Lawrence Livermore Laboratory (LLL), Livermore, California. working as Director, Newada Test Site, LLL. Who identified themselves as Spec Agents (SAs) of the Federal Eureau of Investigation (FBI), that the interview was in regard to his possible knowledge of one Dr. ZALMAN MORDECAI SHAPIRO, and his firm, Nuclear Materials and Equipment Corporation (NUMEC) in Apollo, Pennsylvania, pursuant to an investigation of a highly sensitive nature requested by the Attorney General of the United States. From memory, recalled that NUMEC had dealings with LLL from about 1962 and 1965. At that time, recalled, NUMEC was was working under contract with LLL and was dealing in plutonium (P 238). The whole matter of dealing with NUMEC was a "mess" only met SHAPIRO once when he came to the laboratory at Livermore, and was accompanied by one MAX HARRIS, of LLL. Other material may have been contracted, but was not sure, since several years have passed, and had no recall pertaining to other material. When it came time to terminate working relationships with NUMEC over the P 238 contract, there were questions about how to handle the contaminated equipment and material loss. Since the difference of material lost and amount of contaminate equipment noted by NUMEC seemed to be more than that expected by LLL, one of LLL went to NUMEC to determine that the problem was not as bad as NUMEC had indicated from the series of proposals suggested by NUMEC to resolve the problem. remembered a figure of \$130,000 that reflected the estimate of material and equipment in question that could be accounted for by loss and contaminated, nor had it been used. The material processed at that time was for the LLL "Pluto" reactor, and there was quite a discrepancy in the stateward of the passion of the series of proposals suggested by NumeC contaminated, nor had it been used. The material processed at that time was for the LLL "Pluto" reactor, and there was quite a discrepancy in the stateward of the passion

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	balance of material at the time of the proposed termination of the contract. MAX HARRIS may have detailed information pertaining to this discrepancy.	÷5
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	At the staff meetings and seminars, new ideas were discussed and was in attendance at these conferences. These meetings gave him the opportunity to have "access" to information pertaining to the manufacture of nuclear weapons.	. b6 b7C
Γ	Continuing from memory, recalled being in Washington. D.C., and had discussed with the access had and departure to Israel. conducted an investigation pertaining to but apparently could not establish exactly what kind of access had the could be the access of the could be the access of the could be the co	
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	should also know (2) (2) (4) pur DOE let. 6/6/85 56685 (1) may 6/7/85	Ъ6 Ъ7С
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but	the one time he met him.	did not know SHAPIRO very well, he obtained the opinion that
DITHI	PIRO could not be trusted. s feeling.	. His personality gave

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Date of transcription 6/1/76

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On May 24, 1976, MAX EARL HARRIS, Mechanical Engineer, Lawrence Livermore Laboratory (LLL), Livermore, California, was advised by who identified themselves as Special Agents (SAs) of the Federal Bureau of Investigation (FBI), that the interview was with reference to a highly sensitive investigation being conducted on request of the Attorney General of the United States.

HARRIS advised that he has been aware of the problems LLL has had with Nuclear Materials and Equipment Corporation (NUMEC) for years. LLL commercial purchasing people had problems with NUMEC because the costs during the contract work had accelerated beyond the normal expected range. Besides Plutonium, NUMEC also handled Uranium (U-235). HARRIS recalled that at one time 20 grams of special nuclear material (SNM) from NUMEC was located at the Coors facility, for no explained reason. This type of incident was frequent and caused problems of accountability. HARRIS said that he would make available a copy of his file pertaining to dealings with NUMEC and reported unaccountable losses of SNM.

Oak Ridge National Laboratories, who is in charge of the light water reactor and in charge of the U-235 facility, may know more about NUMEC's problems of accountability than anyone else, since he has dealings with NUMEC.

Because of the continuing problems with NUMEC, HARRIS decided to keep a file on NUMEC activities with LLL, which contain both direct and indirect information pertaining to separate incidents.

pm-DOE est. 610/85 568550/mbf HARRIS advised that he did not remember and could not place him as an LLL employee in the "Pluto" project. HARRIS added that he once met ZALMAN SHAPIRO when SHAPIRO visited the LLL, but did not have personal contact with SHAPIRO to the extent that would be considered a personal acquaintance.

Interviewed on	5/24/76at_	Livermore,	California	_File # WFO 117-273	
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	Date of transcription 6/1/76
bruckels unclass pn DOE let. 6/6/85 5668513/ may 1/7/95	On May 24, 1976, Lawrence before advised of the identity of the interviewing agents, was advised that the Attorney General of the United States had requested an investigation into the possible diversion of nuclear material by an East Coast firm, and in conjunction with this investigation some background data was requested at LLL. He stated that he remembered as working on the "Fluto" project during the early 1960s. Was a heavy-set individual with dark features. He was best described as a loner. He worked for an individual named formerly with LLL. worked on a nuclear probably worked very little with highly classified material formerly with the "Pluto" project. Nevertheless, some LLL employees did get involved in weapons research activity. Stated that he cannot recall if personally had access to weapons information. did calculations and paper work that was sent to the computer center where weapons material was processed. Was a canter at the Synagogue in San Francisco, California. lived in San Francisco proper and drove back and forth to work each day. This was quite a task then, since there was no four-lane highway to Livermore during the early 1960s. had a friend, who might know more about activities at that time.
	Weapon documents used by LLL at that time, during the early 1960s went into storage during 1966 and 1967. used to work with the documents and may know where the records pertaining to document charge outs are located.
	apparently moved to Washington, D.C., and may be employed by a company known as "IDA."
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by	SAs Ind AES:jst 5/27/76 b6 b70

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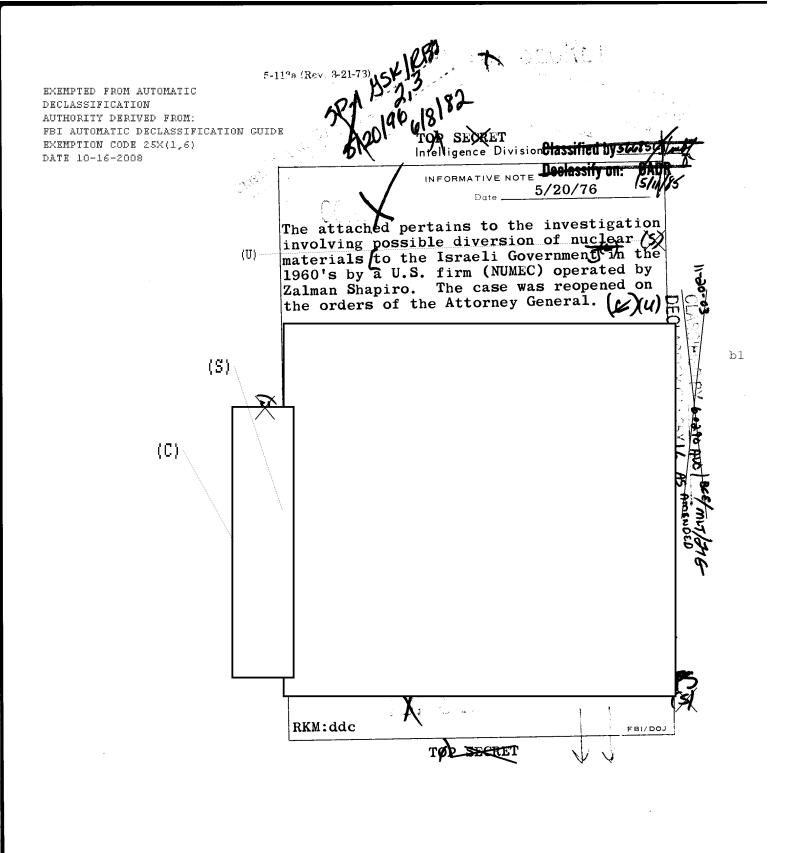
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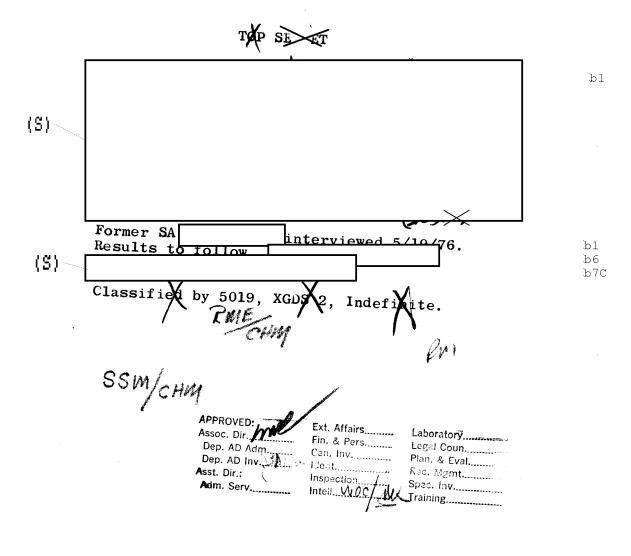
On June 1, 1976, during raview of back-up material used in connection with the preparation of the Atomic Energy Commission (AEC), April 6, 1966, report on Muclear Materials and Equipment Corporation (NUMEC) (MC DOWELL Benort) a prior draft of the report was observed. This draft contained a number of suggested changes which were ultimately included in the final report. The suggested changes did not appear to dilute the report in any way but added to the material and made certain portions of the report more specific.

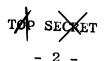
ecom that	Also during the above review, it was noted that the conducted the interviews of them current and former
NUMEC ampl	Those individuals that composed the
"Shipping Affairs.	Procedures" team were acw at here and of Division of International

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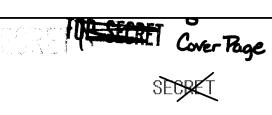
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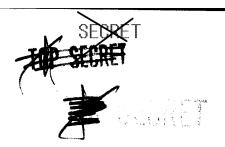


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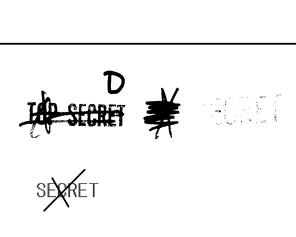
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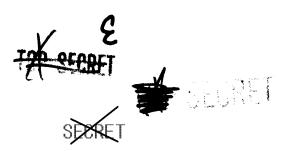
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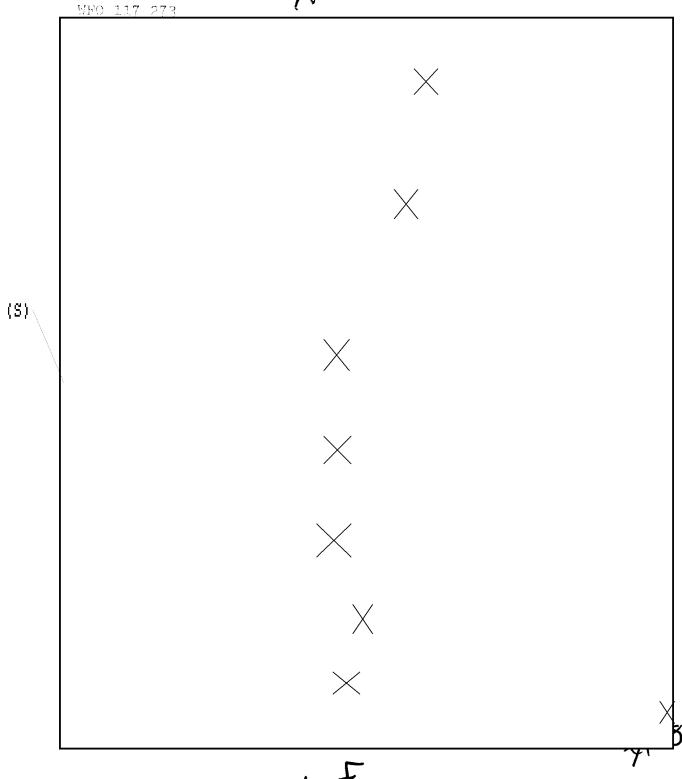




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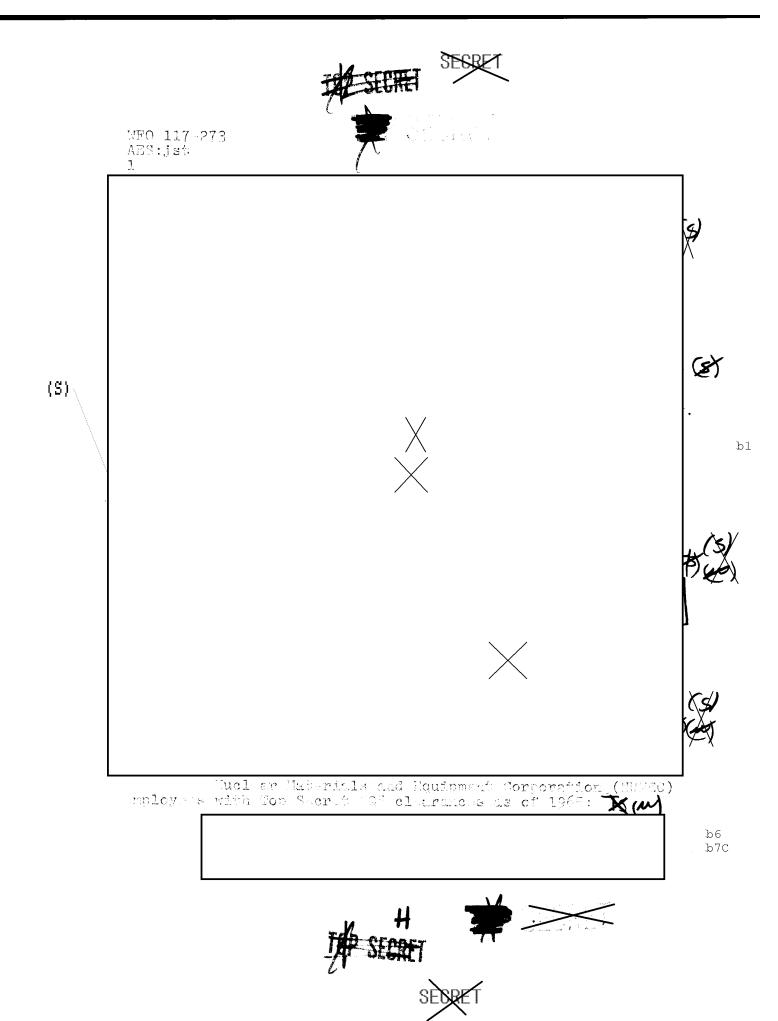




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	NUMEC employees with Top Secret "Q" clearances as of 1971:	7
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_	Notes in NUMEC file reflected: AEC, was with NUMEC. AEC, Division of Material, was with NUMEC.	
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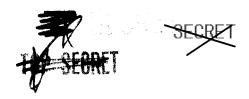
on May 14, 1976, SA was in contact with JOHN MARTIN. Acting Deputy Chief, Internal Security Section, Criminal Division, U.S. Department of Justice, Section, Criminal Division, U.S. Department of Justice, Washington, D.C., who made available for review those Washington, D.C., who made available for review those Washington, D.C., who made available for review those Washington, Departmental files (two in number) pertaining to Dr. ZALMAN Departmental files (two in number) pertaining to Dr. ZALMAN MORDECAI SHAPIRO and the Nuclear Materials and Equipment Corporation (NUMEC). Those files contained intradepartmental Corporation (NUMEC). Those files contained intradepartmental memoranda, Federal Bureau of Investigation (FBI) investigative reports, and official correspondence primarily to and from the Atomic Energy Commission.

No communication was observed which specifically qualified the investigative direction to be taken in the FBI's 1968 inquiry in the SHAPIRO-NUMEC matter. Nor was there observed a copy of reported correspondence between

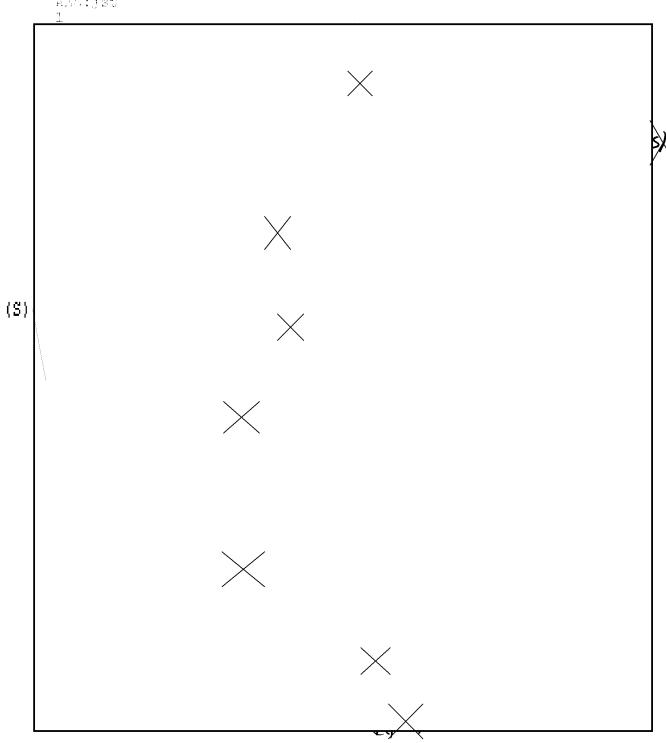
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and the then Attorney General, RAMSEY CLARK, supposedly dated in early April, 1968. It should be noted that with reference to the latter, MARTIN advised that he had requested a search to be made through any RAMSEY CLARK correspondence a still maintained by the Department of Justice. This search was carried out without locating the correspondence in question, according to MARTIN.





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